



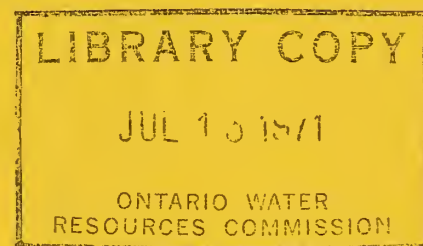
Environment  
r management in Ontario

Ontario  
Water Resources  
Commission

May  
1971

# INTERIM PROVINCE OF ONTARIO CONTINGENCY PLAN

*For spills of oil  
and other  
hazardous materials*



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ONTARIO WATER RESOURCES COMMISSION



INTERIM

PROVINCE OF ONTARIO CONTINGENCY PLAN

for

SPILLS OF OIL AND OTHER

HAZARDOUS MATERIALS

Hon. G.A. Kerr, Q.C.  
Minister

R.D. Johnston  
Chairman

D.S. Caverly  
General Manager

May, 1971

ONTARIO WATER RESOURCES COMMISSION



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ONTARIO OPERATIONS CENTER

(416) 365-2537 (24 hrs.)





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## 100     INTRODUCTION

100.1        The threat of spills of oil and other hazardous materials calls for positive co-ordinated action for the notification, control, containment and clean-up of spills. Incidents such as the Torrey Canyon, Ocean Eagle, Santa Barbara and the Arrow emphasize the importance for co-ordinated response capabilities to deal with such disasters.

100.2        After consulting with various government agencies and industry, the Ontario Water Resources Commission developed the "Province of Ontario Contingency Plan for Spills of Oil and Other Hazardous Materials". The Ontario Contingency Plan outlines the response procedures for spills of oil and other hazardous materials in the Ontario portion of the Great Lakes System. The basic notification framework and resources described in the plan are used also by the OWRC in the event of spills in the inland waters of the drainage basin and elsewhere in the province.



101      PURPOSE AND OBJECTIVES

101.1      The purpose of the "Province of Ontario Contingency Plan for Spills of Oil and Other Hazardous Materials" is to outline a mechanism for:

- (a)          the discovering and reporting of spills
- (b)          alerting and co-ordinating the resources including manpower materials and equipment to control and clean-up spills
- (c)          establishing financial liability for the cost of clean-up operations.

101.2      The plan provides for the integration and co-ordination of resources provided by municipalities, industries and others under the command of a predesignated OWRC official, to mitigate the effects of a major spill of oil or other hazardous material which occurs in the waters of Ontario.

101.3      Under the plan, the development of local contingency measures, either individually or co-operatively, is encouraged. Appendix lists the local contingency plans developed to date and the principal contact with respect to these plans. It is expected for spills of lesser magnitude, that these local plans will be able to cope with the orderly clean-up of the spill and the OWRC in such situations would act only in an advisory capacity.



101.4 Recent amendments to the OWRC Act make it mandatory that all spill incidents be reported to the Commission. The Province of Ontario Contingency Plan details the notification system for spill reports and their subsequent assessment for possible further action.

## 102 SCOPE

102.1 The Ontario Contingency Plan encompasses all navigable and non-navigable waters of Ontario including the Great Lakes, their tributaries and other bodies of water in Ontario.

## 103 ABBREVIATIONS AND DEFINITIONS

### 103.1 Agency Titles

CCIW	-	Canada Center for Inland Waters
CMOT	-	Canada Ministry of Transport
DHO	-	Ontario Department of Highways
ODLF	-	Ontario Department of Lands and Forests
ODM	-	Ontario Department of Mines and Northern Affairs
OPP	-	Ontario Provincial Police
OWRC	-	Ontario Water Resources Commission
ODH	-	Ontario Department of Health



103.2      Operational Titles

OCP	- Province of Ontario Contingency Plan (Ontario Contingency Plan)
OOC	- Ontario Operations Center
OSC	- On-Scene Commander
ROT	- Regional Operations Team

Definitions

103.3      Minor spill - is a spill incident of oil or other hazardous material of such magnitude in which the party responsible for the spill can, utilizing its own resources, undertake the necessary measures to control, contain and clean-up the material spilled.

103.4      Moderate spill - is a spill incident of oil or other hazardous material of such magnitude in which the resources under a local or co-operative contingency plan are required to effectively contain and clean-up the material spilled.

103.5      Major spill - is a spill incident of oil or other hazardous material of any magnitude requiring resources in addition to those available under a local contingency plan, or a spill which gets out of control when action is being taken under a local contingency plan. Implementation of the Province of Ontario contingency plan would become effective under these conditions.

103.6      Hazardous material - is matter of any description or origin other than oil, which when discharged into any waters, presents





an imminent hazard to public health or welfare, or fish and wildlife.

103.7 Oil - means oil of any kind or in any form and without limiting the generality of the foregoing, includes petroleum fuel oil, sludge, oil refuse and oil mixed with wastes but does not included dredged spoil.

## 200 AGENCY RESPONSIBILITIES

200.1 The Ontario Contingency Plan is designed to operate through the Ontario Operations Center in co-operation with other government and industrial agencies.

## 201 ONTARIO WATER RESOURCES COMMISSION (OWRC)

201.1 The Ontario Water Resources Commission is responsible for water pollution abatement in the province and has taken the lead role in the development of a multi-agency plan to deal with spills into the waters of the province. Accordingly, the Commission will:

- undertake the command operations in the event of a major spill in Ontario
- provide technical advice on aspects of water pollution
- alert all water users who may be affected by a spill



- provide liaison with other concerned persons and government authorities in Canada and the United States
- carry out a continuous evaluation of chemicals and maintain up-to-date information on other equipment for use in controlling and containing oil spills and distribute this information to interested parties
- provide a public relations officer to prepare news releases on the spill and maintain liaisons with the news media and the public-at-large.



202.1      The Department of Lands and Forests is responsible for the preservation of fish and wildlife and the supervision of forestry resources in Ontario. The role of the Department of Lands and Forests in the Ontario Contingency Plan is currently under development. It is expected that this role will take advantage of the Department's specialized skills and resources. Until such time as the Department has finalized its plan, it will;

- 1)            through the District Forester assist the OSC in an evaluation of biological implications of proposed containment and clean-up procedures.
- 2)            utilize the Department's communications system to relay information to other government agencies and industry.
- 3)            provide surveillance i.e. through aerial flights any signs of spills may be spotted or maintain surveillance of a slick.
- 4)            provide an "Oil Strike Force" which will have limited containment capability. The function of the strike force will be to assist districts in preventing contamination of the shoreline in provincial parks, in wilderness areas, at departmental installations and at other locations threatened by oil slicks as well as protection of fish and wildlife.



203.1      Through its Petroleum Resources Section, the Department of Mines and Northern Affairs administers the regulation of exploration and drilling procedures, licences and inspects drilling and production facilities in Ontario, including those located in Lake Erie.

203.2      The Petroleum Resources Section will:

- provide the technical expertise with respect to oil and gas well drilling operations,
- alert oil and gas well drilling operators in the vicinity of an oil spill,
- assume the command operations necessary to shut off the source of oil or gas in the event of an oil or gas well spill incident.





204     ONTARIO DEPARTMENT OF HEALTH (ODH)

204.1     The Ontario Department of Health is responsible for land and water pollution abatement with respect to private systems in the province through the Public Health Engineering Service. The Department will:

- provide co-ordination with local health agencies
- arrange for the provision of medical advice
- assist the on-scene commander.
- provide engineering advice with respect to Public Health Engineering.



205     OTHER GOVERNMENT DEPARTMENTS

205.1     Ontario Provincial Police (OPP)

- to provide assistance in emergency communications as may be required.

205.2     Ontario Department of Highways (DHO)

- to provide equipment and material in the form of mulchers, straw and peat moss, as may be required.



206.1      The Ministry of Transport administers the Oil Pollution Regulations under the Canada Shipping Act. The Ministry has power to take action to prevent pollution that may be caused by the release of the cargo or fuel from a ship in distress. The Act also contains provisions prohibiting the pollution of water by oil discharged from a ship and the provisions for prosecution of the offending party. The Ministry also maintains a fleet of coast guard vessels on the Great Lakes as well as helicopters and fixed-wing aircraft to enforce the provisions of the Act during the navigational season.



207      FEDERAL CONTINGENCY PLAN

207.1      The Federal Contingency Plan for Combatting Oil and Toxic Material Spills is designed to operate in conjunction with the Province of Ontario and the U.S. Contingency Plans in the Great Lakes Region. The Federal Plan will be invoked under the following circumstances:

1.            Major spills in which the province requests federal assistance as back-up to the provincial response.
2.            Spills from ships on the open water in which case the primary response will be through the Federal Contingency Plan.
3.            Spills which cross or threaten to cross the international boundary in either direction.

207.2      The Federal Contingency Plan is co-ordinated in the Great Lakes Region by the Director of the Canada Center for Inland Waters in Burlington, Ontario.





208.1      Spills affecting international waters will come under the jurisdiction of an International Contingency Plan currently under development. The resources detailed in the province of Ontario Contingency Plan will be available through the OWRC which will be represented on the Joint Response Team of the International Contingency Plan.



209     THE CANADIAN CHEMICAL PRODUCERS' ASSOCIATION (CCPA)

209.1     The Canadian Chemical Producers' Association has developed a "Transportation Emergency Assistance Plan" (TEAP). This plan was designed to provide response capabilities in the event of a spill of hazardous material during transportation.

209.2     Under this plan the CCPA has established four Regional Control Centers (Appendix XI00) which are staffed 24-hours per day and are equipped to provide technical advice and assistance in the event of a chemical spill in order to minimize danger to public health and the environment. The Regional Control Center can provide specialized equipment and manpower if a chemical spill incident is involved.



300     ORGANIZATION AND FUNCTION

301     ONTARIO OPERATIONS CENTER (OOC)

301.1     The ONTARIO OPERATIONS CENTER is staffed by the Ontario Water Resources Commission at 135 St. Clair Avenue West, Toronto, Ontario, phone 24 hours - (416) 365-2537.

301.2     The functions of the OOC are as follows:

- to act as the focal point for all reports concerning the spill of oil and other hazardous materials,
- to advise other agencies and persons who may be affected by a spill,
- to maintain an inventory of materials, chemicals, etc. to be used for control of oil spills,
- to maintain up-to-date technical information on oil spills,
- to implement the Ontario Contingency Plan as required.

301.3     In the event the Ontario Contingency Plan is implemented, the ONTARIO OPERATIONS CENTER will provide the following:

- communication with the Regional Operations Team and affected water users,
- technical advice and information on combatting spills.



302     ON-SCENE CO-ORDINATION

302.1     In the event of a spill, it will be the responsibility of the person causing the spill to notify the OOC. If the spill is minor or moderate the resources under the local or co-operative contingency plans will generally be adequate to contain and clean-up the material spilled, and the designated On-Scene Commander (OSC) will be available as an advisor to the local contingency group. Regular progress reports of the clean-up operations should be made to the ONTARIO OPERATIONS CENTER.

302.2     When a major spill occurs and additional resources are required, the predesignated On-Scene Commander will assume control of all on-scene pollution control activities.

302.3     The duties of the predesignated OSC and his alternate are:

- to become familiar with potential spill areas within his district
- to formulate an operations team with representatives of the various government agencies and industry for his region
- to meet regularly with the regional operations team to evaluate response capabilities and assign specific responsibilities to each member.





302.4 In the event of a major spill the OSC will:

- direct the employment of needed resources in accordance with this plan to initiate and continue containment, countermeasures, clean-up, restoration and disposal functions.
- mobilize the Regional Operations Team and direct the ROT to ensure adequate protection of the environment from pollution damage.
- with the assistance of the ROT, make regular reports to the ONTARIO OPERATIONS CENTER.
- co-ordinating the acquisition of manpower, equipment and other resources.
- act in co-operation with public relations representatives of the agencies involved as the focal point for information releases concerning the spill.



303     REGIONAL OPERATIONS TEAM (ROT)

303.1     The Regional Operations Team is the on-site "Technical Team" which will be activated upon implementation of the Ontario Contingency Plan. It will consist of representatives of the Ontario Water Resources Commission, Ontario Department of Mines and Northern Affairs, Ontario Department of Lands and Forests, Canada Ministry of Transport, Canada Center for Inland Waters, Ontario Provincial Police and other government agencies and industries as required.

303.2     In the Ontario Contingency Plan, the functions of the ROT will be to:

- establish a communication link with the OOC,
- serve as the emergency team on the scene of the spill,
- review and evaluate situations and reports received for the OSC,
- advise the OSC of applicable control techniques, available materials, manpower; the danger to public health, fish, aquatic life and wildlife, navigation, oil and gas drilling safety,
- respond to the needs of the OSC,
- prepare reports, as may be directed by the On-Scene Commander.



304     PUBLIC INFORMATION

304.1     In the event of a major spill of oil or other hazardous materials into Ontario waterways, it is imperative that the public be provided with accurate information on the spill as to its nature and the measures being employed for its control. This policy will maintain the confidence of the concerned public and ensure accurate reporting of abatement progress.

304.2     Trained public relations officers from the participating agencies will be assigned to the Ontario Operations Center and the Regional Operations Team upon implementation of the Province of Ontario Contingency Plan.

304.3     The responsibilities of the public relations officers are to:

- supervise public information activities  
              (news conferences, etc.)
- to prepare, together with the OSC and the  
              OOC co-ordinator news releases involving  
              major policy consideration
- advise the OSC on possible public reaction  
              to the courses of action under consideration
- issue a daily written news release from the  
              OOC and the ROT.



## 400     RESPONSE PHASES

400.1     The actions taken to combat a spill can be separated into four distinct phases. These are: Phase I - Discovery and Notification; Phase II - Containment and Countermeasures; Phase III - Clean-up, Restoration and Disposal, and Phase IV - Recovery of Damage and Enforcement.

## 401     PHASE I

401.1     Discovery and Notification are the first response actions to spills. Discovery of a spill may be a result from deliberate searching procedures or bay random discovery as outlined in the section entitled "Surveillance" (Appendix X400).

401.2     All spills of oil and other hazardous materials that may impair the province's waters shall be reported immediately to the ONTARIO OPERATIONS CENTER, Ontario Water Resources Commission - phone 24-hours - (416) 365-2537.

401.3     Upon notification and determination of the extent of a spill and whether it will require the placing into effect of the Ontario Contingency Plan, the OOC will then contact other agencies who may be concerned or may become involved. If a major spill is indicated, representation from each agency will be required for the Regional Operations Team to provide the necessary advice and action at the scene of a spill.





402     PHASE II

402.1     Containment and Countermeasures are defensive responses to be initiated as soon as possible after discovery and notification of a spill. Depending on the circumstances, these may include the placing of physical barriers to control the spread of oil, the placement of booms or barriers to protect onshore areas, and the use of dispersants, sorbents, gelling or burning agents or other materials to mitigate the effects of a spill.

403     PHASE III

403.1     Clean-up, Restoration and Disposal include those actions taken to remove the oil from the water such as the collection of oil through the use of sorbents, skimmers or other collection devices to restore the environment to its natural state and to safely dispose of oil which is recovered in the clean-up and restoration phase.

404     PHASE IV

404.1     Recovery of Damages and Enforcement will include a variety of activities depending on the location and circumstances of the spill. An essential aspect of this phase is the collection of samples and other data as quickly as possible to substantiate the source for later recovery of damages.



404.2        The removal of the pollutant from the water, the restoration of the environment to its pre-spill conditions; the disposal of the pollutants recovered in clean-up and restoration are the primary responsibility of the polluter. Collection of samples and necessary supporting information will be made by the OWRC to determine the source and extent of the damages.

404.3        Each response to a pollution incident involves certain costs which must be borne by the polluter. Recommended action is to hold the polluters responsible for the incident including the costs of clean-up. Moreover, the nature of a pollution incident is such that it is of primary concern to commence containment and clean-up action immediately.

404.4        In the event the source of the spill cannot be determined or the person or persons responsible are unwilling or unable to effectively carry out the necessary clean-up operations, the OOC will mobilize the Ontario Contingency Plan and with an OSC co-ordinate clean-up, restoration and disposing of the pollutants. The costs of the operation will be charged to the person or persons who discharged or deposited the polluting material.

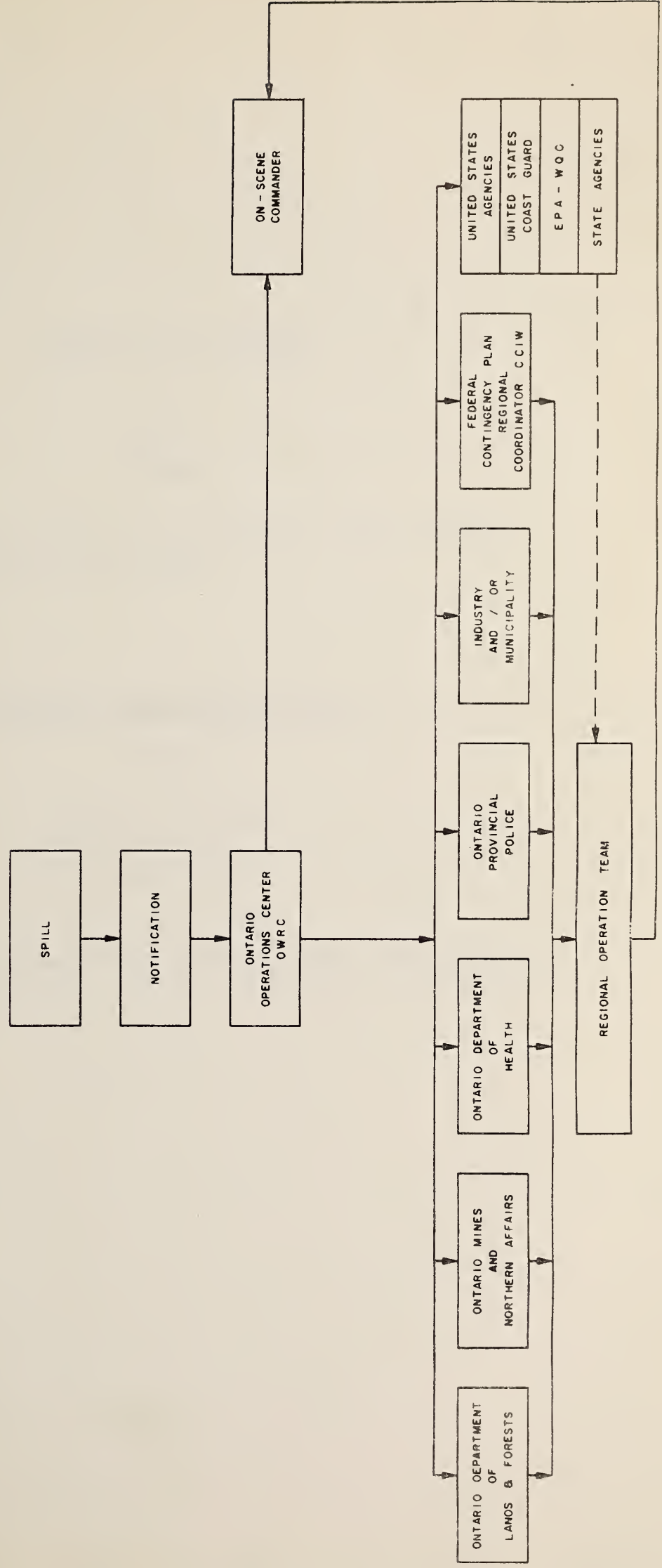


APPENDIX X100

ALERTING PROCEDURE



## APPENDIX X100







ALERTING PROCEDURE

for

SPILLS

In the event of an occurrence, observation or  
other notification of an oil spill contact

IMMEDIATELY:

ONTARIO OPERATIONS CENTER

Toronto

Phone - 24 hours

(416) 365-2537

The caller should obtain as much information as  
possible concerning the spill - see the FACT SHEET, Table X100.1  
to be used as a guide.



TABLE X100.1

FACT SHEET FOR SPILLS

As much of the following information as possible should be obtained prior to reporting a spill to the Ontario Operations Center.

Time of Observation of spill

Probable source of spill

Probable time of spill

Location of spill

Nature of material spilled

Probable volume of spill

Probable duration of spill

Size of oil slick

Movement of oil slick

Weather and lake conditions

Action being taken to:

- control spill
- contain spill

Personnel on the scene of spill



PROVINCE OF ONTARIO  
CONTINGENCY PLAN

In the event of an oil or hazardous material spill, the ONTARIO OPERATIONS CENTER should be immediately notified by calling (416) 365-2537 (24 hours).

Co-ordinators:      Mr. N. Vanderkooy  
                         Mr. S.E. Salbach  
                         Mr. W.A. Steggles  
                         Mr. K. Shikaze (416) 365-6975

When the Ontario Contingency Plan is implemented the following personnel will become the designated On-Scene Commander for their respective district (see map).

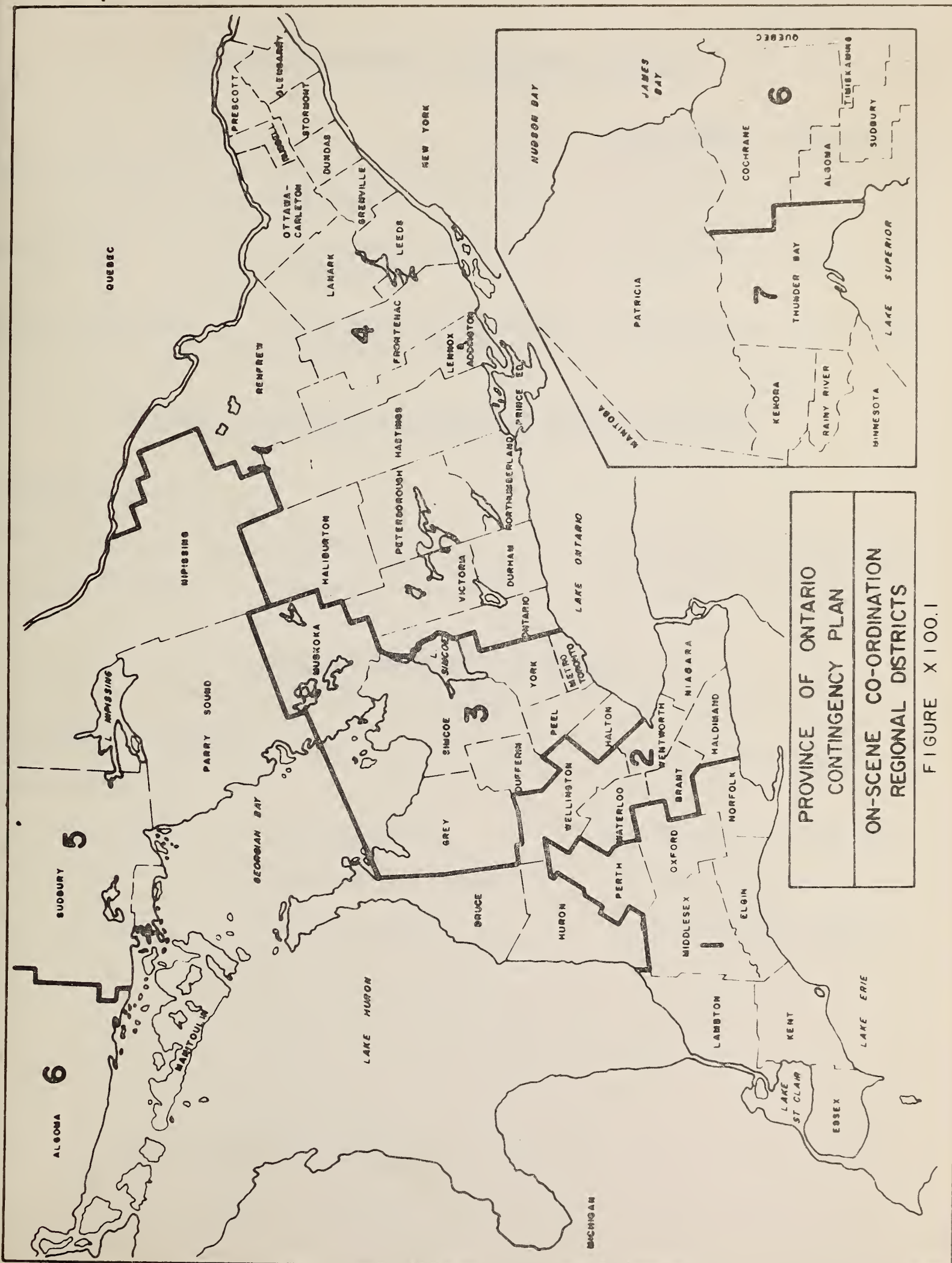
<u>District</u>	<u>On-Scene Commander</u>	<u>Alternates</u>	<u>Office Phone</u>	<u>Home Phone</u>
1	Mr. R. Hussain	Mr. J. Bray	519-433-3961 519-433-3961	519-471-7860 519-471-1026
2	Mr. R.C. Stewart	Mr. R. MacMurray Mr. V. Buxton Mr. G. Van Fleet	416-365-6346 416-365-1655 416-365-1655 416-365-1655	416-451-8226
3	Mr. T.D. Armstrong	Mr. G. Missingham Mr. M. Filey	416-365-6346 416-365-6967 416-365-6346	416-487-0673 416-727-8394
4	Mr. T. Dafoe	Mr. L. South Mr. G.I. Macey	613-546-3171 613-544-3320 613-544-3320	613-544-0992 613-546-5047 613-382-4344
5	Mr. L. Fitz	Mr. J. Stasiuk	705-674-3151 416-365-6967	705-566-6046
6	Mr. J. Moore		705-949-3961	705-254-4069



<u>District</u>	<u>On-Scene Commander</u>	<u>Alternates</u>	<u>Office Phone</u>	<u>Home Phone</u>
7.	Mr. I. Ramsay	Mr. J. Marsh	807-623-5591	807-344-3359
			807-623-5591	807-344-0354









ONTARIO DEPARTMENT OF LANDS AND FORESTS

		<u>Office Phone</u>	<u>Home Phone</u>
Mr. S.B. Panting	- Supervisor Engineering Services	416-365-1271	116-225-8543
Mr. H. Weir	- Northwestern Region Thunder Bay	807-683-7171	807-345-8140
Mr. J.A. Hindman	- Southern and Northeastern Region, Huntsville	705-789-4471	705-385-2214

ONTARIO DEPARTMENT OF MINES AND NORTHERN AFFAIRS

Petroleum Resources

Mr. D.A. Sharpe	- Supervisor	416-365-1981	416-921-6768
Mr. D.D. McLean	- Reservoir Engineer	416-365-1983	416-489-0872

ONTARIO DEPARTMENT OF HEALTH

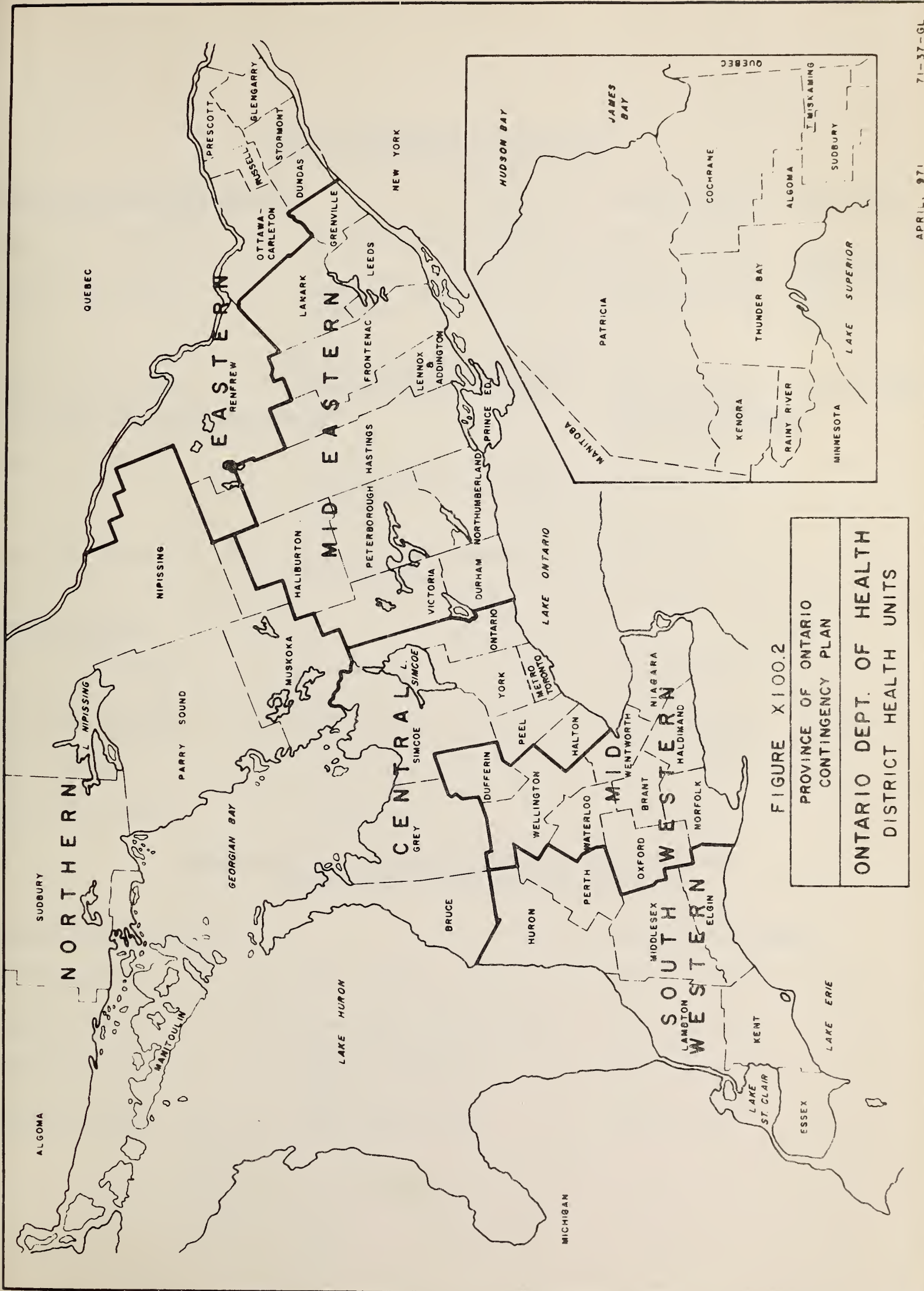
Public Health Engineers

Regional Engineers

Mr. D.W. Milne	- Central Region	416-365-4071	416-759-6858
Mr. D. Aitkens	- Southwestern Region	813-434-5731	813-433-5892
Mr. D. Kimber	- Eastern Region	823-546-3279	823-389-5747









CANADA MINISTRY OF TRANSPORT

Steamship Inspection Branch

		<u>Office Phone</u>	<u>Home Phone</u>
Mr. A. C. Parkinson	- Steamship Inspector	416-369-4605	416-637-6160
Mr. D. R. Weaver	- Senior Steamship Inspector	416-369-4605	Burlington 416-277-3463 Toronto

FEDERAL CONTINGENCY PLAN

Mr. W.J.H. Stuart	- Marine Pollution Officer	613-992-9743	613-937-4168
<u>Great Lakes Regional Co-ordinator</u>		<u>Telephone 24-hours</u>	

Mr. J. P. Bruce	- Director Canada Centre for Inland Waters	637-4303
-----------------	---	----------

Dr. A. R. LeFeuvre	- Environmental Quality Co-ordinator	637-4303
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Marine Agents

Mr. J. S. Barrick	- Prescott	613-925-2865
Mr. F. K. McKean	- Parry Sound	705-746-2196
Mr. J. Bennett	- Amherstburg	519-736-5075
Mr. R. W. Forbes	- Thunder Bay	807-345-6311

TRANSPORTATION EMERGENCY ASSISTANCE PLAN (TEAP)  
(CHEMICAL PRODUCERS ASSOCIATION)

<u>Regional Control Centre</u>		<u>Telephone 24-hours</u>
Western Ontario	- Dow, Sarnia	519-337-8282
Central Ontario	- Cyanamid, Niagara Falls	416-356-8310
Eastern Ontario	- Dupont, Maitland	613-348-3616
Northern Ontario	- CIL, Copper Cliff	705-682-2881





THUNDER BAY  
SUB - REGION

PARRY SOUND  
SUB - REGION

THUNDER BAY

PRESCOTT

PARRY SOUND

PRESCOTT

SUB - REGION

FIGURE X100.3

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

FEDERAL GREAT LAKES  
REGIONAL COORDINATORS

SCALE:

DRAWN BY A.R.S.

DATE: APRIL, 1971

CHECKED BY

DRAWING NO 71-35-GL



UNDER-WATER GAS DEVELOPERS LIMITED

Niagara Base	24 hrs.	416-835-2427
Dispatcher Lake Erie		

U.S. COAST GUARD OFFICE

District Office, Cleveland

Ninth Coast Guard District	Day	216-522-3950
Captain of the Port	Night	216-522-3983

U. S. ENVIRONMENTAL PROTECTION AGENCY

Water Quality Office

Regional Office, Chicago

Mr. A. Manzardo	312-756-4712
Mr. C. Pemberton, Jr.	312-968-0381
Mr. R. Tellebson	312-543-7180



APPENDIX X200

PROCEDURE FOR REPORTING INFORMATION

and

COLLECTING SAMPLES



## APPENDIX X200

### PROCEDURE FOR REPORTING INFORMATION AND COLLECTING SAMPLES

X200.1 In the event of any spill, it is essential that factual information on the spill, as well as representative samples be collected for later use in clean-up cost recovery, damage recovery and in enforcement actions.

#### X201 INVESTIGATION AND REPORTING (See Fact Sheet, Table X100.1)

- investigate all observed and reported spills,
- collect samples of oil from water and from all suspected sources of the spill,
- interview witnesses and obtain names,
- prepare a report on personal findings and observations of others,
- submit reports of spill to ONTARIO OPERATIONS CENTER.

#### X202 SAMPLE COLLECTION

X202.1 Several precautions must be taken when collecting and handling liquid samples for analyses. The character of a sample may be affected by the following conditions:

- (a) the composition and cleanliness of the container





- (b) manner in which the sample is taken
- (c) time lapse before analyses

X202.2 In taking samples, the following procedures should be followed:

- (a) glass or stainless steel containers of at least one quart size should be used. Containers made of all plastics except Teflon have been found to absorb organic materials from water. In other cases, compounds have been dissolved from plastic containers. This also applies to bottle cap liners. The portion of the cap liner which may come into contact with the sample in the container should be made of glass, aluminum foil or teflon.
- (b) clean new containers are preferred, although containers that have been cleaned with a strong detergent, thoroughly rinsed and dried may be used.
- (c) as large a sample as possible of the oil (at least 10 ml of concentrated oil) should be taken to enable the chemist to conduct all the necessary analytical tests. Skimming techniques should be employed to obtain a sufficient amount of oil for analysis.
- (d) when water is polluted, it is not unusual for the polluting condition to change rapidly. Representative samples should be taken with the time sequence and place appropriately noted.
- (e) samples must be properly labelled, e.g. name of person who collected the sample, time, location, name of person who witnessed the collecting of the sample and the chain of custody of the sample.



- (f) samples should be refrigerated and delivered to the OWRC laboratories, Hwy. 401 and Islington with a minimum of delay.

X203.3 The chain of custody of samples must be maintained and recorded, from the time the samples are taken until they are produced as court evidence. In this regard, a record of time, place, name and title of persons taking the samples, names of witnesses and each person handling the samples must be maintained and accompany the samples.



APPENDIX X300

OWRC GUIDELINES

for the

USE OF CHEMICAL DISPERSANTS

for

OIL SPILLS



## APPENDIX X300

### OWRC GUIDELINES FOR THE USE OF CHEMICAL DISPERSANTS FOR OIL SPILLS

X300.1 The chemical treatment of oil on water by the use of detergents or dispersants as they will be referred to in these guidelines has been the subject of much controversy since their massive use during the Torrey Canyon oil spill in 1967. Because the subsequent research studies into the effects of dispersants after the Torrey Canyon spill have shown that dispersants caused severe adverse effects on the aquatic life in the area, there has developed an increasing awareness on the part of regulatory agencies to limit the use of dispersant for the dispersion of oil on water. Unfortunately, no clear dividing line can be established to define the circumstances under which dispersants can be used, and therefore, it becomes necessary to set forth some general guidelines for their use. Where possible, the Ontario Water Resources Commission should be consulted before a dispersant is used, but it is recognized that the emergency nature of many oil spills necessitates an immediate decision on the part of those responsible to effect clean-up. The following recommendations are made to ensure that all the pertinent factors are taken into consideration before a decision is made regarding the use of dispersant chemicals.





X300.2     Dispersants should not be used where the prime concern is:

- (i)            protection of surface water supplies,
- (ii)           protection of fish spawning areas,
- (iii)           protection of fishing areas,
- (iv)           protection of beaches,
- (v)            protection of known waterfowl habitats.

X300.3     Dispersants may be considered for use:

- (i)            where a fire and safety hazard is present,
- (ii)           where the floating oil presents an immediate hazard to waterfowl,
- (iii)           for control and clean-up of small oil slicks, and then only after all other possible methods for control, containment and removal of the floating oil have been ruled out.

X300.4     Where a high potential for small oil spills exists, the first line of defence should be a mechanical boom. However, the storage of dispersants for emergency use will be permitted. Such use, however, should only be after consideration of the foregoing points.

X300.5     Where possible, the application of dispersants should be under the supervision of OWRC personnel. In any event, the OWRC should be contacted whenever a dispersant is used for an oil spill.



X300.6     Where possible, dispersants exhibiting the minimum toxicity to aquatic life should be used. It is recognized that a reduced toxicity often means a lower efficiency of the dispersants. The OWRC Division of Research is continually studying the toxicity and effectiveness of dispersants, and can be consulted for information on specific proprietary chemicals.

X300.7     Chemicals have been developed for sinking oil, gelling of oil, herding oil, etc., but in most cases, their applicability for use on oil spills is more limited. These chemicals, while they are generally less toxic than dispersants, should not be used without prior consultation with the ONTARIO OPERATIONS CENTER or the predesignated On-Scene Commander, since other factors must be considered.



APPENDIX X400

SURVEILLANCE



## SURVEILLANCE

X400.1      Spills of oil and other hazardous materials should not be permitted to occur. However, accidents are possible and when such incidents do occur, the responsible party is often reluctant to report the details immediately. Therefore, it is desirable for all agencies and persons carrying out activities in the Province to maintain an awareness of possible sources of oil and other hazardous material and the system of notification to be followed in the event of a spill. The following government agencies, and other groups provide surveillance in the Great Lakes System.

### X400.2      Provincial Agencies

#### (a)      Ontario Water Resources Commission

- survey vessels
- periodic aerial surveillance

#### (b)      Ontario Dept. of Mines and Northern Affairs

- oil and gas well drilling inspections

#### (c)      Ontario Dept. of Lands and Forests

- research vessels
- routine aerial surveillance





X400.3 Federal Agencies

(a) Department of Transport

- Canadian coast guard
- periodic aerial surveillance

(b) Canada Centre for Inland Waters

- research vessels

X400.4 United States Agencies

(a) U. S. Coast Guard

(b) U. S. Corps of Engineers

(c) Water Quality Office of the U.S.  
Environmental Protection Agency

(d) State Agencies - Michigan, Ohio,  
Pennsylvania, New York,  
Minnesota  
Wisconsin

X400.5 Shipping Industry

X400.6 Fishing Industry

X400.7 Oil and Gas Well Drilling Industry

X400.8 Waterworks Operators

X400.9 Public-at-large

- pleasure boaters
- fishermen

X400.10 Shore-based Industry

X400.11 Harbour Boards and Commissions



X400.12 Ontario Provincial Police

X400.13 Ontario Department of Highways



APPENDIX X500

RESEARCH



## APPENDIX X500

### RESEARCH

#### X501 CANADA CENTRE FOR INLAND WATERS (CCIW)

X501.1 The Canada Centre for Inland Waters is an interdisciplinary centre for water studies in Canada. It is being developed by three Federal departments, Energy Mines and Resources (EMR), Fisheries and Forestry (Fisheries Research Board), and National Health and Welfare, and the university community. Current activities at the centre are focussed on research on the Great Lakes. A number of research vessels operate from the centre as part of the research program.

#### X502 ONTARIO WATER RESOURCES COMMISSION (OWRC)

X502.1 Under the Division of Research, staff are continually compiling data and evaluating various chemicals and materials which are commercially available for cleaning up oil spills.

X502.2 From time to time, technical information exchanges, possibly in the form of seminars, meetings, etc. will be organized by the OWRC. The objectives of these information exchanges will be to review:





- techniques for containment and removal of oil and hazardous material,
- provide information for the development of local contingency plans,
- exchange information on available resources for spill abatement.



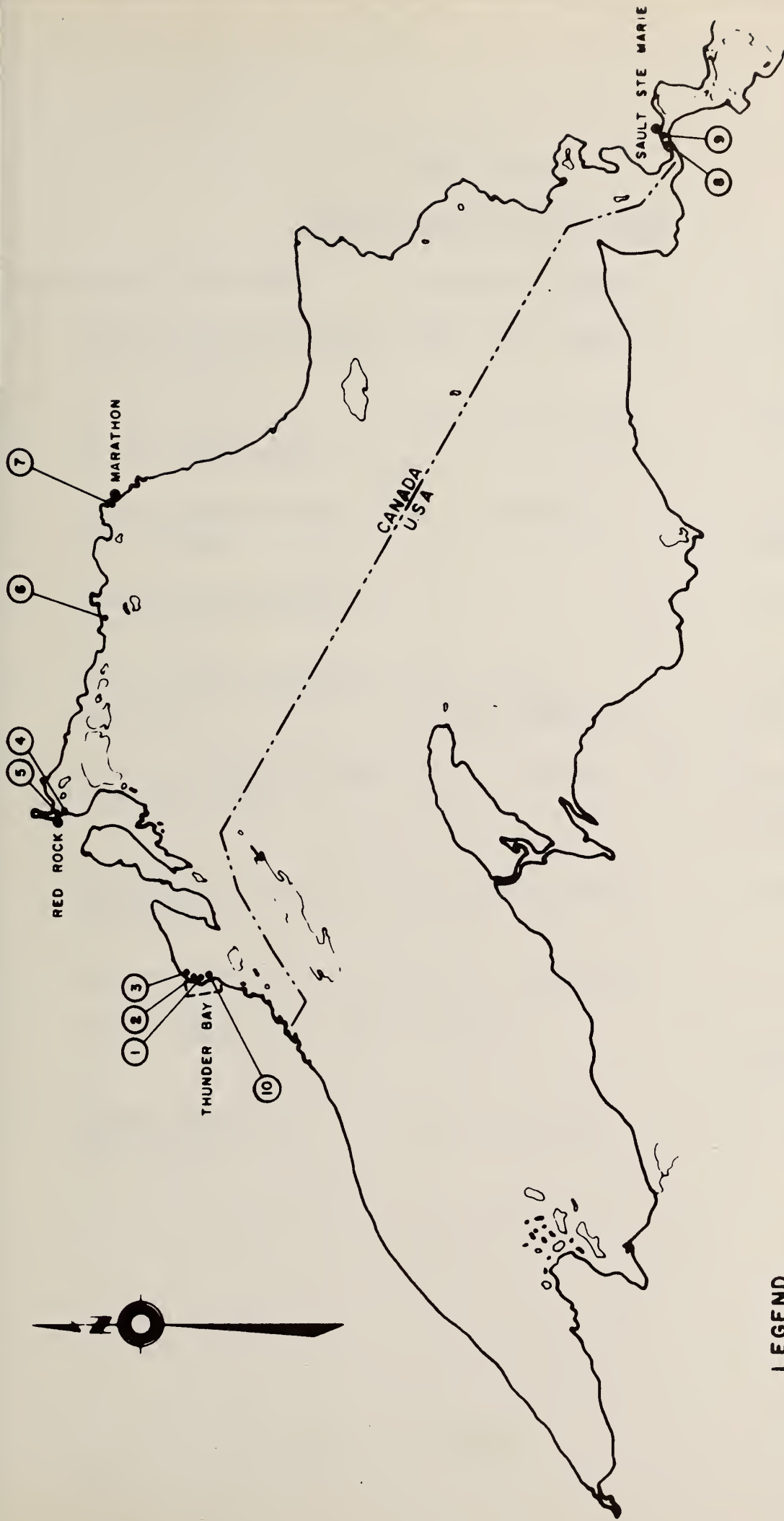
APPENDIX X600

WATER INTAKES

RECREATIONAL AREAS

FISH AND WILDLIFE AREAS





- (1)
- (2)
- (3)
- (4)
- (5)
- (6)
- (7)
- (8)
- (9)

- ABITIBI PROVINCIAL PAPER.
- ABITIBI PAPER CO. (THUNDER BAY MILL)
- CITY OF THUNDER BAY (PORT ARTHUR)
- DOMTAR PACKAGING LTD.
- IMPROVEMENT DISTRICT OF RED ROCK.
- KIMBERLY CLARK PULP AND PAPER CO. LTD.
- AMERICAN CAN. CO. CANADA LTD.
- ALGOMA STEEL.
- CITY OF SAULT STE. MARIE.

(10)

AMTIBI PAPER CO. (MISSION MILL)

LEGEND

FIGURE X600.1

PROVINCE OF ONTARIO CONTINGENCY PLAN	
LAKE SUPERIOR WATER INTAKES	
SCALE: 10 20 30 40 50 MILES	
DRAWN BY: ARS	DATE: JULY, 1970
CHECKED BY:	DRAWING NO: 70-99-GL



TABLE X600.1

LAKE SUPERIOR WATER USERS

<u>Location of Water Works</u>		<u>Persons to Contact</u>	<u>Telephone</u>	
1.	Abitibi Provincial Paper (Thunder Bay)	Mr. D. W. Peat	24 hrs.	807-683-6211
2.	Abitibi Paper Co. (Thunder Bay Mill)	Mr. W.C.E. Wood	24 hrs.	807-683-6235
3.	City of Thunder Bay (Port Arthur)	Mr. D. Howes	Office Res.	807-623-2711 807-344-2555
4.	Domtar Packaging Ltd. (Red Rock)		24 hrs.	807-866-2111
5.	Improvement District of Red Rock	Mr. F. Twa (P.U.C. Red Call)	Office Res.	807-866-2245 807-866-2698
6.	Kimberly Clark Pulp and Paper Co. Ltd.	Mr. J. A. Ferrier	Plant Pump- house	807-825-3211 807-825-3259
7.	American Can Co. of Canada Ltd.	Mr. C. E. Stevens	24 hrs.	807-229-1200
8.	Algoma Steel Corp. Ltd.	Dr. J. A. Standige	24 hrs.	705-254-5111
9.	City of Sault Ste. Marie	Mr. Belyea	Office Res.	705-256-6261 705-256-2546
10.	Abitibi Paper Co. Mission Mill	Mr. A. Marcoux	24 hrs.	807-623-6486





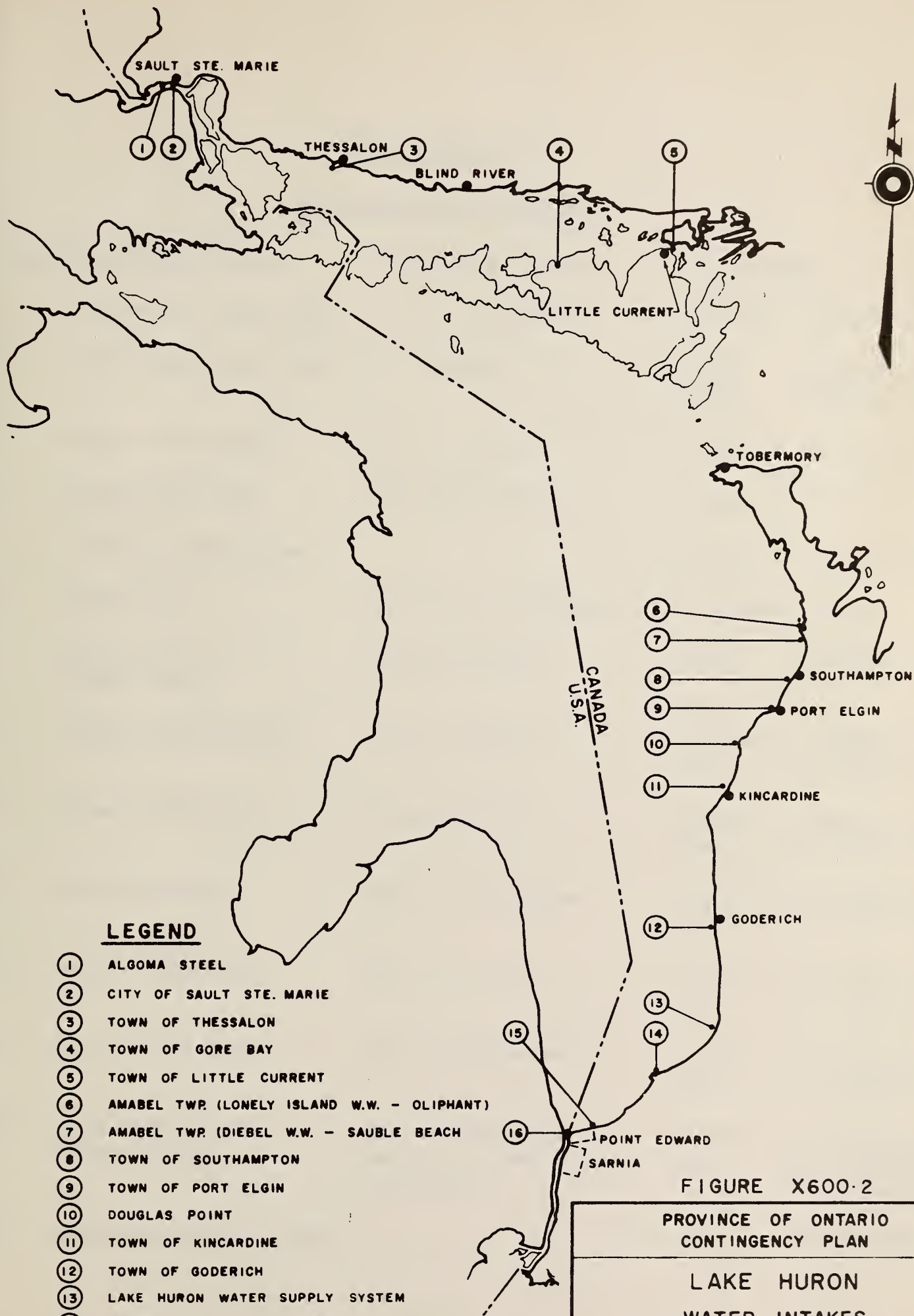


FIGURE X600-2

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

LAKE HURON  
WATER INTAKES

SCALE: 25 20 15 10 5 0 25 MILES

DRAWN BY: A.R.S.

DATE: JULY, 1970

CHECKED BY:

DRAWING NO: 70-102-GL



TABLE X600.2

LAKE HURON WATER USERS

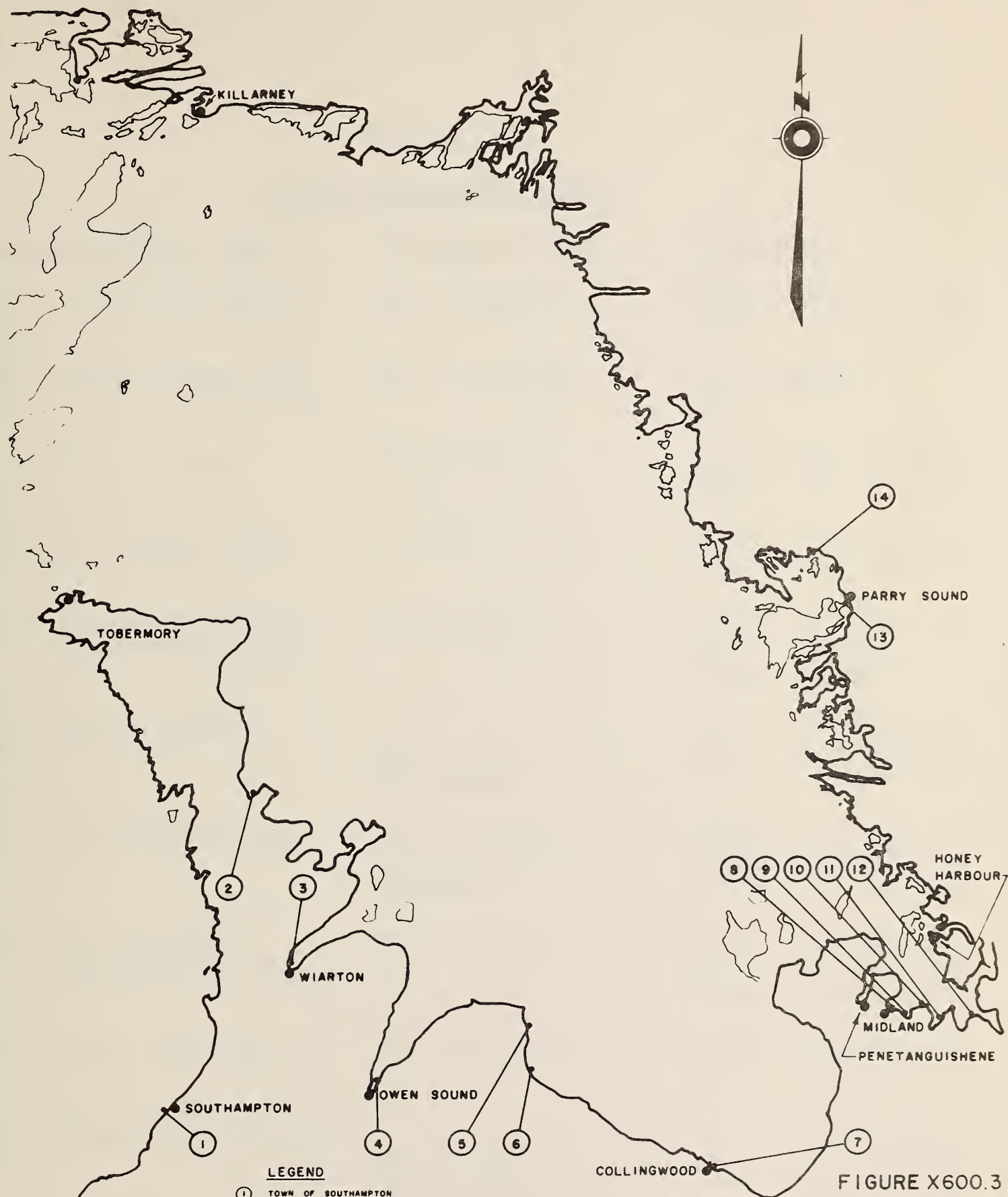
<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
1. Algoma Steel Corp. Ltd.	Dr. J. A. Standige	24 hrs.	705-254-5111
2. City of Sault Ste. Marie	Mr. Belyea	PUC Res.	705-256-6261 705-256-2546
3. Town of Thessalon	Mr. F. Valley	Res.	705-842-2311
4. Town of Gore Bay	Mr. Jack Cowell	Res.	705-282-2292
5. Town of Little Current		PUC	705-368-2093
6. Amabel Twp.	Mr. W. A. McKenzie	Oliphant, Ontario	
7. Amabel Twp. Sauble Beach	Mr. G. Diebel	Res.	519-934-2115
8. Town of Southampton	Mr. G. Manley	Office Res.	519-797-3730 519-797-2309
9. Town of Port Elgin	Mr. Ken Paul	Office Res.	519-832-2742 519-832-2624
10. Douglas Point	Mr. C. A. McKerlie	Office Res.	519-396-3321 519-396-2824
11. Town of Kincardine	Mr. H. Watson	Office Res.	519-396-2743 519-396-2268
12. Town of Goderich	Mr. M. Wilkinson	Office Res.	519-524-6518 519-524-7454
13. Lake Huron Water Supply System	Mr. Alan Ladbroke Mr. E. D. Reed Pumphouse	Office Res.	519-433-3961 519-439-4836 519-238-2361
14. Ipperwash Military Camp		Camp	519-873-2381



TABLE X600.2 (cont'd)

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
15. Town of Petrolia	Mr. A. Rose	PUC	519-882-0340
		Home	519-882-0403
		Pumphouse	519-869-4011
16. City of Sarnia	Mr Keith Reyneker	Office	519-337-7501
		Res.	519-542-4593
		Pumphouse	519-344-2851





# **LEGEND**

- ① TOWN OF SOUTHAMPTON
- ② VILLAGE OF LIONS HEAD
- ③ TOWN OF WIARTON
- ④ CITY OF OWEN SOUND
- ⑤ CANADIAN FORCES BASE (MEAFORD TANK RANGE)
- ⑥ TOWN OF MEAFORD
- ⑦ TOWN OF COLLINGWOOD
- ⑧ TOWN OF MIDLAND (INDUSTRIAL WATER SUPPLY)
- ⑨ RCA VICTOR
- ⑩ VILLAGE OF PORT M'NICOLL
- ⑪ VILLAGE OF VICTORIA HARBOUR
- ⑫ COMMUNITY OF WAUBAUSHENE
- ⑬ TOWN OF PARRY SOUND
- ⑭ CANADIAN INDUSTRIES LIMITED (NOBEL)

FIGURE X600.3

## PROVINCE OF ONTARIO CONTINGENCY PLAN

## GEORGIAN BAY WATER INTAKES

SCALE: 10 5 0 5 10 MILES

DRAWN BY: A.R.S.

DATE: JULY, 1970

CHECKED BY:

DRAWING N° 70-103-GL







TABLE X600.3

GEORGIAN BAY WATER USERS

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
1. Town of Southampton	Mr. G. Manley	Office	519-797-3730
		Res	519-797-2309
2. Village of Lions Head	Mr. C. Shouldice	Lion's Head 65	
		Res.	" "
3. Town of Wiarton	Mr. B. Daykin	Office	519-534-0260
		Res	519-543-0325
4. City of Owen Sound	Mr J. A. Gurnham	PUC	519-376-4530
		Res.	519-376-9714
5. Canadian Forces Base (Meaford Tank Range)	Maintenance	Office	513-538-1850
		Day	Local 29
		Night	Local 46
6. Town of Meaford		PUC	519-538-2662
	Mr. M. Cook	Res.	519-538-3673
	Mr. Bishop	Res.	519-538-3822
7. Town of Collingwood	Mr W.G.Lane	Office	705-445-3472
	Mr. R. Smith	Office	705-445-1185
	Operator	Office	705-445-1791
8. Town of Midland (Industrial Water Supply)	Mr A. Holmes	Plant	705-526-2921
		Res.	705-526-2828
	Mr. S. Holt	Office	705-526-2095
9. R.C.A. Victor Ltd.	Mr A. G. Cox	Office	705-526-7871
		Res.	705-526-8087
10. Village of Port McNicoll		Mun. Office	705-534-7281
	Mr. V. Kelly	Res.	705-534-7375
	Mr. M. Kelly	Res.	705-534-7494
11. Village of Victoria Harbour	Mr F. Miller	Res.	705-534-7823



TABLE X600.3 (cont'd)

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
12. Community of Waubauskene	Mr. J. Moreau	Office	705-538-2971
		Res.	705-538-2964
13. Town of Parry Sound	Mr. D. Thomas	Office	705-746-5866
		Res.	705-746-9866
14. Canadian Industries Ltd. (Nobel)	Mr. H. R. Sweet	Office	705-342-5213
	Mr. G. A. Ingleson	Res.	705-342-5336
		Res.	705-342-9919



# LEGEND

- 1 TOWN OF PETROLIA
- 2 CITY OF SARNIA
- 3 CITY OF SARNIA
- 4 IMPERIAL OIL ENTERPRISES LTD
- 5 IMPERIAL OIL ENTERPRISES LTD
- 6 IMPERIAL OIL ENTERPRISES LTD
- 7 POLYMER CORP LTD
- 8 OOW CHEMICAL OF CANADA LTD
- 9 SUN OIL COMPANY LTD
- 10 SHELL CANADA LTD
- 11 DUPONT OF CANADA LTD
- 12 ALLIED CHEMICAL CANADA LTD
- 13 ONTARIO HYDRO ELECTRIC COMM
- 14 CANADIAN INDUSTRIES LTD
- 15 POLICE VILLAGE OF SOMBRA
- 16 CHINOOK CHEMICALS CORP LTD
- 17 SOMBRA TWP (LEELAND GONS.)
- 18 POLICE VILLAGE OF PORT LAMSTON
- 19 TOWN OF TILBURY
- 20 TILBURY NORTH TWP (STONSY POINT)
- 21 TOWN OF BELLE RIVER
- 22 CITY OF WINDSOR (TSCUMSHI)
- 23 CITY OF WINDSOR
- 24 FORD MOTOR CO OF CANADA
- 25 MIRAM WALKER AND SONS LTD
- 26 CANADIAN SALT CO LTD
- 27 TOWN OF AMHERSTBURG (ALLIED CHEMICAL)
- 28 CALVERT DISTILLERS LTD

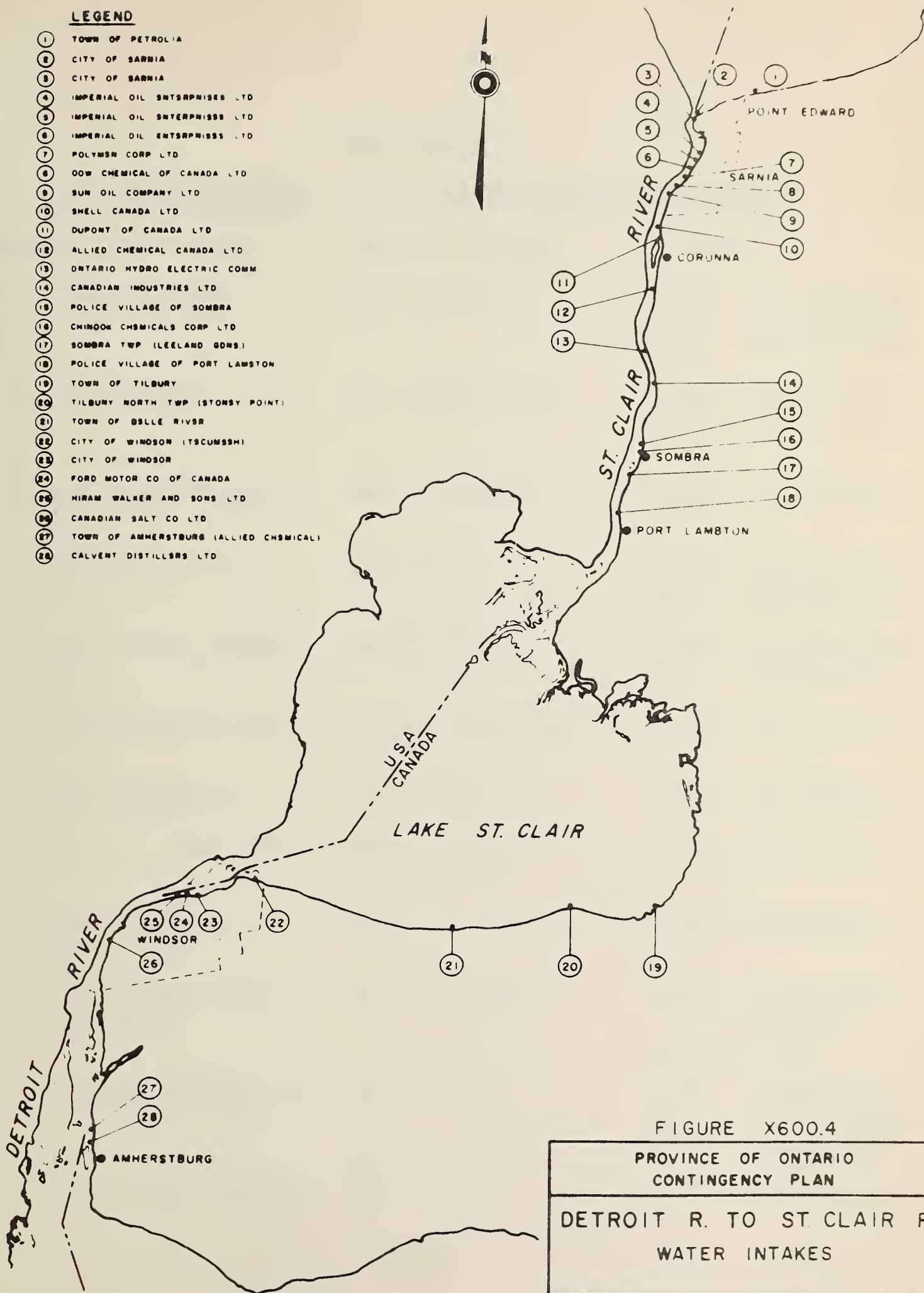


FIGURE X600.4

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

DETROIT R. TO ST. CLAIR R  
WATER INTAKES

SCALE 5 4 3 2 1 0 5 10 MILES

DRAWN BY: ARS

DATE JULY, 1970

CHECKED BY

DRAWING N° 70-100-GL



TABLE X600.4

ST. CLAIR RIVER, LAKE ST. CLAIR AND DETROIT RIVER WATER USERS

<u>Location of Water Works</u>		<u>Persons to Contact</u>	<u>Telephone</u>	
1.	Town of Petrolia	Mr. A. Rose	Office	519-822-0340
			Pumphouse	519-869-4011
			Res.	519-882-0403
2. }	City of Sarnia	Mr. Keith Reyneker	Office	519-344-2851
3. }			Res.	519-542-4593
4. }	Imperial Oil Enterprises Ltd.	Mr. G. Schindel		
5. }			24 hrs.	519-337-8221
6. }				
7.	Polymer Corp. Ltd.	Mr. I. Harris	Office	519-337-8251
			Res.	519-542-7174
8.	Dow Chemical Canada Ltd.	Mr. L. M. Tod	Office	519-337-8282
			Res.	519-344-9453
9.	Sun Oil Company Ltd.	Mr. O. J. Spork and Mr. Czornyj	24 hrs.	519-337-2301
10.	Shell Canada Ltd.	Mr. T. Barry	24 hrs.	519-862-1491
11.	Dupont of Canada Ltd.	Mr. L. Orbane Mr. W. I. Lewis	24 hrs.	519-862-1445
12.	Allied Chemical of Canada Ltd.	Mr. H. J. Bohuis	24 hrs.	519-862-1481
13.	Ontario Hydro Electric Commission	Mr. M. P. Hicks	24 hrs.	519-867-2663
			Ext. 407	
			Night Ext. 310	
14.	Canadian Industries Ltd.	Mr. R. Andres	24 hrs.	519-867-2739
			Res.	519-542-7891
		Mr. T. B. Lynch	Res.	519-542-9905
15.	Police Village of Sombra	Mr. R. Tomlin	Res.	519-892-3434





TABLE X600.4 (cont'd)

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
16. Chinook Chemical Corp. Ltd.	Mr. M. E. Miller	Bus.	519-892-3411
		Res.	519-336-4656
17. Sombra Twp. (Leeland Gdns.)	Mr. R. Tomlin		519-892-3434
	Mr. Lee		519-892-3593
18. Police Village of Port Lambton	Mr. G. Atkins	Res.	519-677-5235
19. Town of Tilbury	Mr. P. Marchand	Office	519-682-2141
		Pumphouse	519-682-0481
		Res.	519-
20. Tilbury N. Twp.	Mr. D. Caza	Office	519-694-3115
		Pumphouse	519-694-3313
		Res.	519-687-2548
	Mr. C. Chauvin	Res.	519-694-3039
21. Town of Belle River	Mr. J. H. Chaseley	Office	655-
		Res.	1
	Mr. L. Lesperance	Pumphouse	1189
22. City of Windsor (Tecumseh)	Mr. Sid Arbour	Pumphouse	519-735-4772
		Res.	519-735-2564
23. City of Windsor	Mr. Ed Loft	Plant	519-254-1692
		Res.	519-966-3572
24. Ford Motor Co. of Canada	Mr. J. F. Kelton	Plant	519-256-5555
		Res.	519-945-2919
25. Hiram Walker & Sons Ltd.	Mr. M. Sobolov	24 hrs.	519-254-5171
		Res.	519-969-3660
26. Canadian Salt Co. Ltd	Mr. P. T. Nolan	24 hrs.	519-256-3105
		Res.	519-969-6917



TABLE X600.4 (cont'd)

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>
27. Town of Amherstburg (Allied Chemicals)	Mr. M. Paraschak	24 hrs. 519-736-2111
28. Calvert Distillers Ltd.	Mr. R. Brinkman	24 hrs. 519-736-2161
		Res. 519-258-2214
	Mr. C. A. Shortt	Res. 519-736-4056



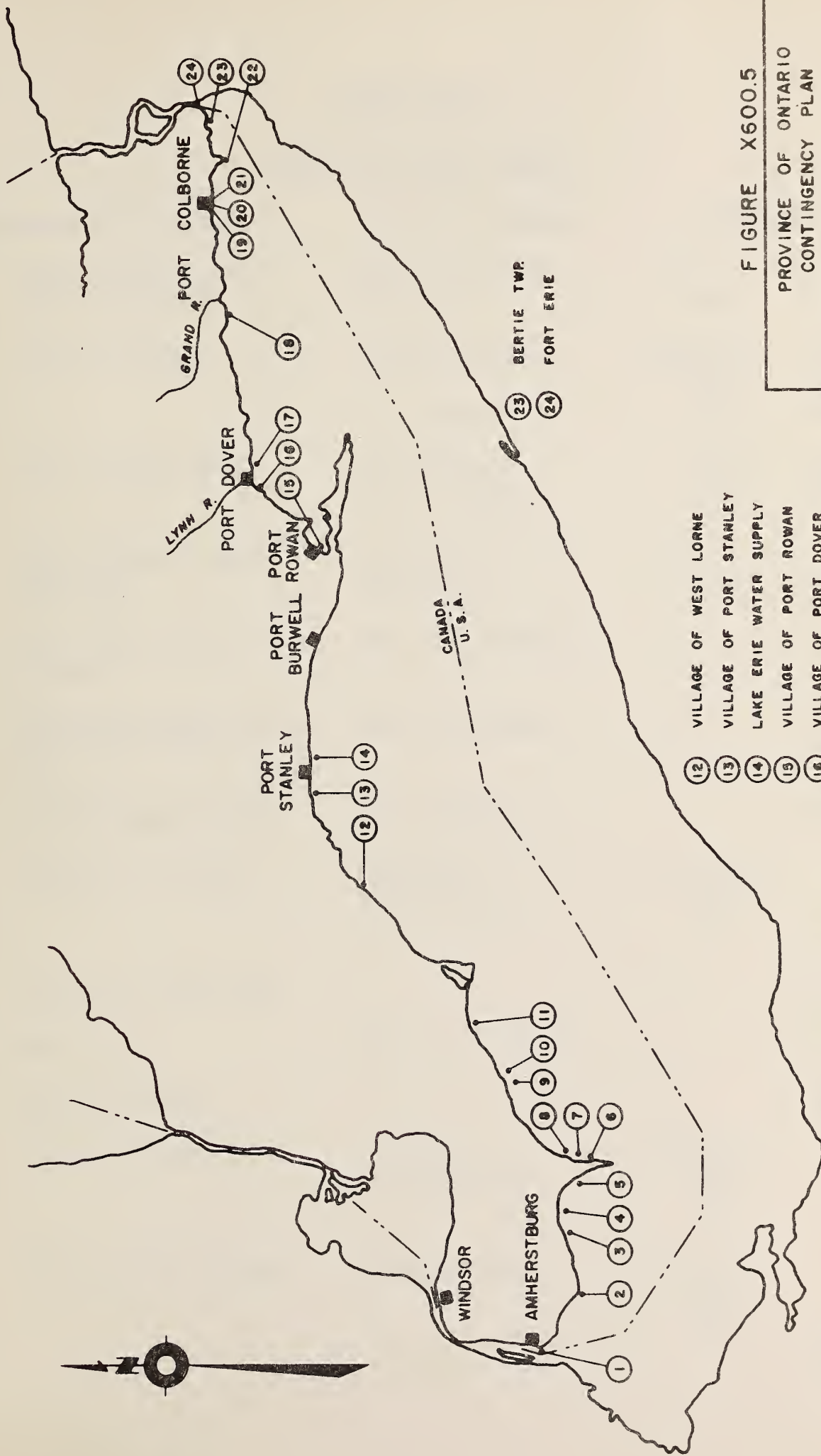


FIGURE X600.5

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

LAKE ERIE  
WATER INTAKES

# LEGEND

- ① TOWN OF AMHERSTBURG
- ② TOWN OF HARROW
- ③ TOWN OF KINGSVILLE
- ④ UNION WATER
- ⑤ H.J. HEINZ CO. OF CANADA

- ⑥ OMSTEAD FISHERIES
- ⑦ PRIVATE (MERSEA TWP.)
- ⑧ VILLAGE OF WHEATLEY
- ⑨ PORT ALMA
- ⑩ PORT CREWE
- ⑪ ONTARIO HOSPITAL

- ⑫ VILLAGE OF WEST LORNE
- ⑬ VILLAGE OF PORT STANLEY
- ⑭ LAKE ERIE WATER SUPPLY
- ⑮ VILLAGE OF PORT ROWAN
- ⑯ VILLAGE OF PORT DOVER
- ⑰ VILLAGE OF JARVIS
- ⑱ DUNN TWP.
- ⑲ PORT COLBORNE
- ⑳ INTERNATIONAL NICKEL CO.
- ㉑ ALGOMA STEEL CO.
- ㉒ CRYSTAL BEACH

BERTIE TWP.  
FORT ERIE

SCALE: 0 25 50 MILES	
DRAWN BY: W.R.E.	DATE: MAY 1966
CHECKED BY:	DRAWING NO.: CLR-66-4



TABLE X600.5

LAKE ERIE WATER USERS

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>
1. Town of Amherstburg Allied Chemical	Mike Paraschak Operator	736-2111 Res. 969-6675
2. Town of Harrow	Charlie Hawkins  B. E. Baltzer	Pumphouse 738-2284 Res. 738-4194 Clerk 738-2523
3. Town of Kingsville	(after hours) Mr. M. Wigle	Plant 733-4411 PUC 733-4132
4. Union Water System (Ruthven)	Harold Sanger or Bill Allsop	Plant 326-4447
5. H.J. Heinz Co. of Canada	Mr. R. B. Marshall	519-326-5701
6. Omstead Fisheries 1961 Ltd.	Mr. R. Omstead	519-825-4611
7. Private (Mersea Twp.)	Mr. Myronyk	519-826-7167
8. Village of Wheatley	Jim Arnew Robert Mills	Pumphouse 825-4183 PUC 825-4211 Res. 825-4376
9. Union Gas, Port Alma		519-689-4297
10. Port Crewe	Mr. G. E. Crewe	519-689-4889
11. Ontario Hospital		519-676-5431
12. Village of West Lorne	E. Brown K. H. Phoenix	Pumphouse 768-1820 PUC 768-1880 Res. 768-1183
13. Village of Port Stanley	Howard Berry	Pumphouse 782-3251 PUC 782-3940 Res. 782-3940



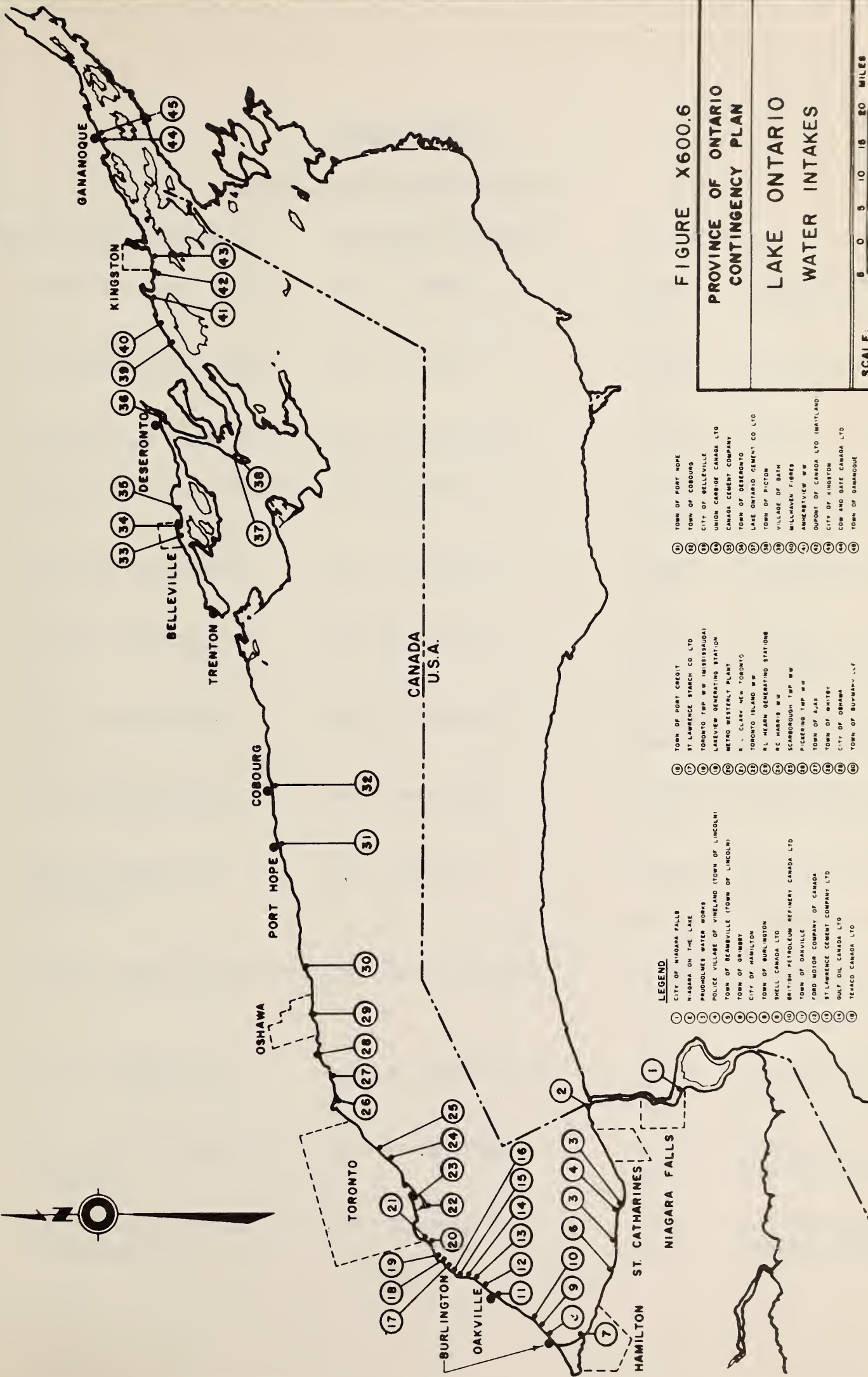




TABLE X600.5 (cont'd)

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
14. Lake Erie Water Supply (Twp. of Yarmouth)	Reg Walters Alan Ladbroke	Pumphouse Manager Res.	631-3680 433-3961 439-4836
15. Village of Port Rowan	P. Baese H. Hammond	Pumphouse PUC	586-2113 586-2113
16. Village of Port Dover	R. Barry D. Simpson	Pumphouse PUC Res.	583-1930 583-1632 583-0244
17. Village of Jarvis	R. Reynolds Foreman	Plant Res.	587-2611 587-2694
18. Dunn Twp.	R. Neff, Operator	Plant Res.	774-6311 774-4608
19. Port Colborne (Welland Canal near inlet from Lake Erie)	J. Farbiak	Pumphouse Res.	834-3363 834-9475
20. International Nickel Company Ltd.	Mr. W. B. Banker		416-834-3611
21. Algoma Steel Corp. Ltd.	Mr. R. Fabbio		416-835-1103
22. Crystal Beach	C. Wood	WW Res.	869-2850 869-3405
23. Bertie Twp.	Wilf Vye	Plant Res.	871-3551 871-0303
24. Fort Erie	G. Rose	Pumphouse Res.	871-1605 871-1207





**LEGEND**

- (1) CITY OF NIAGARA FALLS
- (2) NIAGARA ON THE LAKE
- (3) PRUDHOMES WATER WORKS
- (4) POLICE VILLAGE OF VINELAND (TOWN OF LINCOLN)
- (5) TOWN OF BEANSVILLE (TOWN OF LINCOLN)
- (6) TOWN OF GRIMSBY
- (7) CITY OF HAMILTON
- (8) TOWN OF BURLINGTON
- (9) SHELL CANADA LTD
- (10) BRITISH PETROLEUM REFINERY CANADA LTD
- (11) TOWN OF OAKVILLE
- (12) FORD MOTOR COMPANY OF CANADA
- (13) ST. LAWRENCE CEMENT COMPANY LTD
- (14) GULF OIL CANADA LTD
- (15) TERACO CANADA LTD
- (16) TOWN OF PORT CREDIT
- (17) ST. LAWRENCE STARCH CO. LTD
- (18) TORONTO TWP. WW (MISSISSAUGA)
- (19) LAKEVIEW GENERATING STATION
- (20) METRO WESTERN PLANT
- (21) R. L. CLARK NEW TORONTO
- (22) TORONTO ISLAND WW
- (23) PL. HEARN GENERATING STATION
- (24) SC. HARRIS WW
- (25) SCARBOROUGH TWP WW
- (26) PICKERING TWP WW
- (27) TOWN OF AJAX
- (28) TOWN OF WHITBY
- (29) CITY OF OSHAWA
- (30) TOWN OF BURLINGTON

- (31) TOWN OF PORT HOPE
- (32) TOWN OF COBOURG
- (33) CITY OF BELLEVILLE
- (34) UNION CARBIDE CANADA LTD
- (35) CANADA CEMENT COMPANY
- (36) TOWN OF DESERONTO
- (37) LAKE ONTARIO CEMENT CO. LTD
- (38) TOWN OF PICTON
- (39) VILLAGE OF BATH
- (40) MILLHAVEN FIBRES
- (41) AMHERSTVIEW WW
- (42) DUPONT OF CANADA LTD (MATTAND)
- (43) CITY OF KINGSTON
- (44) COW AND GATE CANADA LTD
- (45) TOWN OF GANANOQUE

**FIGURE X600.6**

**PROVINCE OF ONTARIO  
CONTINGENCY PLAN**

**LAKE ONTARIO  
WATER INTAKES**

**SCALE:** 0 5 10 15 20 MILES

**DRAWN BY:** A.R.S.

**DATE:** JULY, 1970

**CHECKED BY:**

**DRAWING NO:** 70-101-01



TABLE X600.6

LAKE ONTARIO WATER USERS

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
1. City of Niagara Falls	Mr. B. Read	Office	416-295-4831
		Res.	416-358-8853
2. Niagara-on-the-Lake	Mr. G. Ball	Plant	416-468-3452
		Res.	416-468-7839
3. Prudholmes Water Works	Mr. M. Kereluik	Office	416-562-4101
4. Police Village of Vineland	Mr. M. Fretz	Office	416-562-5123
		Res.	416-562-5148
5. Town of Beamsville	Mr. G. Burrows	Office	416-563-7311
		Res.	416-563-8509
6. Town of Grimsby	Mr. W. Bullock	Office	416-945-4323
		Res.	416-385-4302
7. City of Hamilton	Mr. W. Wheten	Office	416-545-3055
		Res.	416-522-7851
8. Town of Burlington	Mr. Dave King	Office	416-634-1851
		Res.	416-634-9127
9. Shell Canada Ltd. Oakville	Mr. Horwood	Office	416-923-2481
			Ext. 227
		Res.	416-827-3457
10. British Petroleum Refinery	Mr. Jack Lawrence	Office	416-827-1161
			Ext. 201
		Res.	416-845-2181
11. Town of Oakville	Mr. N. Buttenshaw	Office	416-845-3461
		Res.	416-844-3458
12. Ford Motor Company of Canada	Mr. W. D. Follis	Office	416-845-2511
		Res.	416-845-7755
13. St. Lawrence Cement Company Ltd.	Mr. C. Coles	Office	416-822-1653
		Res.	416-844-6239





TABLE X600.6 (cont'd)

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
14. Gulf Oil Canada Ltd.	Mr. P. J. Blundy	Office	416-822-4222 Ext. 264
		Res	416-845-0454
15. Texaco Canada Ltd.	Mr S.J. Walker	Office	416-443-7927
		Res.	416-425-8563
16. Town of Port Credit		PUC	416-278-3338
17. St. Lawrence Starch Co. Ltd.	Mr. J.A.D. Gray	Office	416-274-3671 Ext. 11
		Res.	416-278-7054
18. Toronto Twp. WW (Mississauga)	Bill Kendall (OWRC)	Office	416-278-8471
19. Lakeview Generating Station		24 hrs.	416-274-3461
20. Metro Westerly Plant		24 hrs.	416-252-1272
21. R.L. Clark - New Toronto (Goodyear Tire & Rubber Co. of Canada)		24 hrs.	416-367-8278
22. Toronto Island WW		24 hrs.	416-367-8278
23. R.L. Hearn Generating Station	Local 25383-Supervisor Local 25375-Control Rm.	Office	416-368-6767
24. R.C. Harris WW		24 hrs.	416-694-3237
25. Scarborough Twp. WW		24 hrs.	416-261-1300
26. Pickering Twp. WW	Mr. P. Poulsson Mr. R. Hutchinson	Plant Res. Res.	416-839-1136 416-282-6664 416-668-5374





TABLE X600.6 (cont'd)

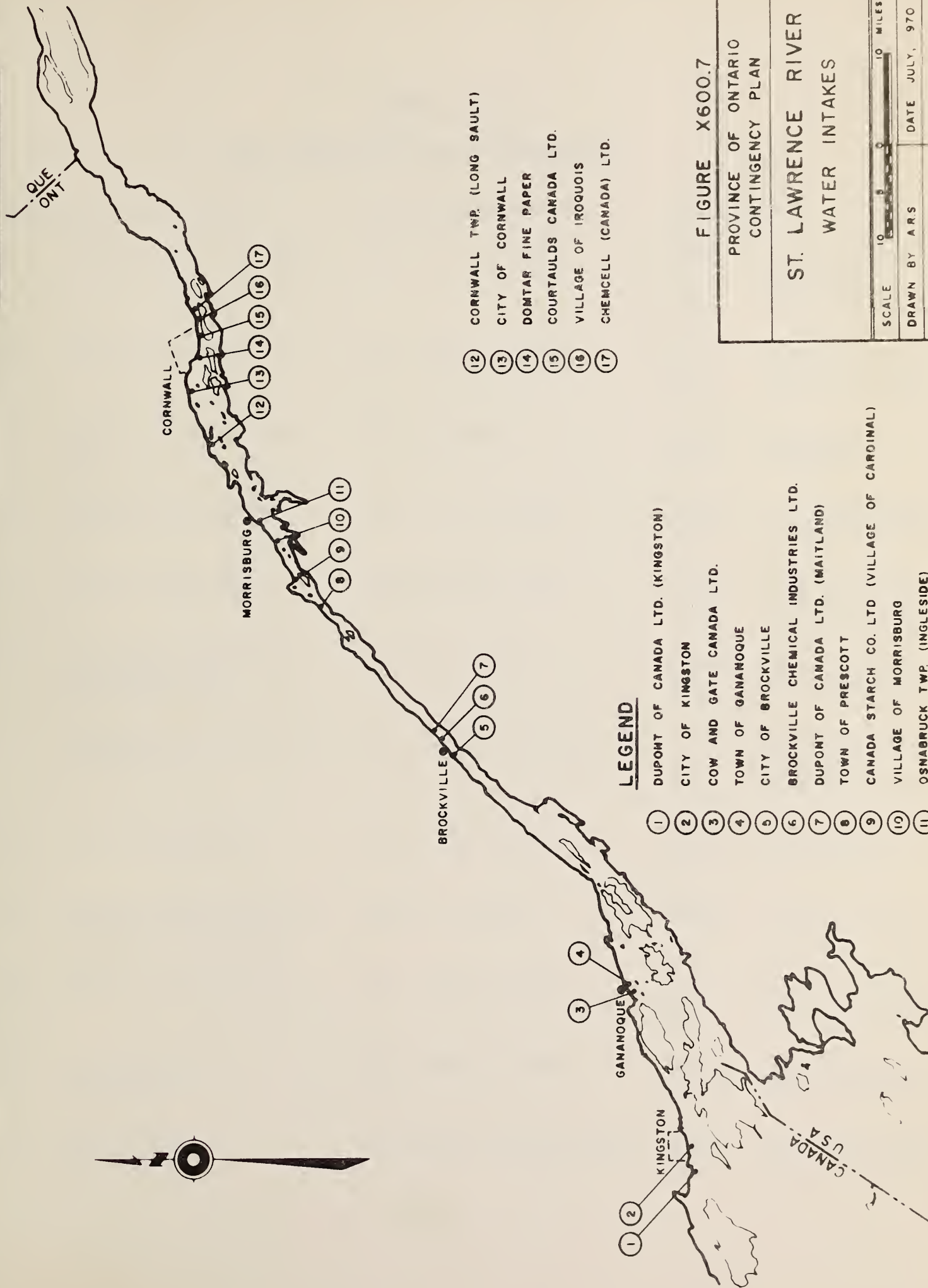
<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
27. Town of Ajax	Mr. W.M. Campbell	Office	942-4550
		Res.	839-5525
28. Town of Whitby	Mr. H.C. Simpson	Office	668-5878
			668-3416
		Res.	668-2870
29. City of Oshawa	Mr. J. B. Annand	Office	723-4623
		Res.	723-9413
		WW	723-7233
30. Town of Bowmanville	Mr. W. E. Archer	Office	623-5471
		Res.	623-3734
	Mr. G.T. VanBridger	Res.	623-3608
31. Town of Port Hope		Office	416-885-2269
	Mr. L. Nelson	Res.	416-885-5608
	Mr. A. D. MacGillis	Res.	416-885-4892
		WW	416-885-2209
32. Town of Cobourg	Mr. W. A. Woods	Office	416-372-7112
		Res.	416-372-5544
33. City of Belleville	Mr. E.L. Burnham	Office	613-962-3431
		Res.	613-962-3109
34. Union Carbide Canada Ltd.	Mr. W.G.G. Lindley	Office	613-968-5501
		Res.	613-962-7310
35. Canada Cement Company	Mr. L. L. Johnston	Office	613-962-2581
		Res.	Unlisted
36. Town of Deseronto		PUC	613-396-2444
37. Lake Ontario Cement Co. Ltd.	Mr. Price	Office	613-476-6330
		Res.	613-476-3379
38. Town of Picton	Mr. L. Tolley	Office	416-476-2337
		Res.	416-476-3053



TABLE X600.6 (cont'd)

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
39. Village of Bath	Mrs. J. Carruthers	Res. & Office	613-352-7880
40. Millhaven Fibres	Mr. W.P. Humphreys	Office Res.	613-389-2210 613-389-1982
41. Amherstview WW	Mr. Ross Blakely	Office Res.	613-386-3021 613-386-3440
42. Dupont of Canada Ltd. (Maitland)	Mr. T.L. Easterbrook	Office  Res.	613-348-3611 Ext. 617 613-345-1655
43. City of Kingston	Mr. Warren Fallis	Office Res.	613-546-1181 613-548-8428
44. Cow & Gate Canada Ltd.	Mr. J. Anstis	Office Res.	613-382-2178 Unlisted
45. Town of Gananoque	Mr. J.F. Symons	Office Res.	613-382-4360 613-382-3963





- (12) CORNWALL TWP. (LONG SAULT)
- (13) CITY OF CORNWALL
- (14) DOMTAR FINE PAPER
- (15) COURTAULDS CANADA LTD.
- (16) VILLAGE OF IROQUOIS
- (17) CHENCELL (CANADA) LTD.

### LEGEND

- (1) DUPONT OF CANADA LTD. (KINGSTON)
- (2) CITY OF KINGSTON
- (3) COW AND GATE CANADA LTD.
- (4) TOWN OF GANANOQUE
- (5) CITY OF BROCKVILLE
- (6) BROCKVILLE CHEMICAL INDUSTRIES LTD.
- (7) DUPONT OF CANADA LTD. (MAITLAND)
- (8) TOWN OF PRESCOTT
- (9) CANADA STARCH CO. LTD (VILLAGE OF CARDINAL)
- (10) VILLAGE OF MORRISBURG
- (11) OSNABRUCK TWP. (INGLESIDE)

FIGURE X600.7

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

ST. LAWRENCE RIVER  
WATER INTAKES

SCALE	10 0 10 MILES
DRAWN BY	ARS
CHECKED BY	
DATE	JULY, 1970
DRAWING NO	TO 104-GL



TABLE X600.7

ST. LAWRENCE RIVER WATER USERS

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
1. Dupont of Canada Ltd.	Mr. G. R. Clarke	Office	613-544-6000 Ext. 392
		Res.	613-389-0483
2. City of Kingston	Mr. Warren Falls	PUC	613-546-1181
		Res.	613-548-8428
3. Cow & Gate (Canada) Ltd.	Mr. J. Anstis	Office	613-382-2178
		Res.	Unlisted
4. Town of Gananoque	Mr. J. F. Symons	Office	613-382-4360
		Res.	613-382-3963
5. City of Brockville	Mr. H. W. Little	Office	613-342-6661
		Res.	613-342-2193
6. Brockville Chemical Industries Ltd.	Mr. A. R. Lyle	Office	613-348-3681
		Res.	613-345-5786
7. Dupont of Canada Ltd. (Maitland)	Mr. T.L. Easterbrook	Office	613-348-3611 Ext. 617
		Res.	613-345-1655
8. Town of Prescott	Mr. Foch Healey	Office	613-925-3734
		Res.	613-925-2514
9. Canada Starch Co. Ltd. (Village of Cardinal)	Mr. A. Burwell	Office	613-657-3131
		Res.	613-657-3169
10. Village of Morrisburg	Mr. Clar Van Allen	Office	613-543-2504
		Res.	613-543-3126
11. Osnabruck Twp. (Ingleside)	Mr. Harvey Fickes	Office	613-537-2362
		Res.	613-527-2528
12. Cornwall Twp. (Long Sault)	Mr. Roch Paul Boisvenue	Office	613-933-1162
		Res.	613-525-1100







TABLE X600.7 (cont'd)

<u>Location of Water Works</u>	<u>Persons to Contact</u>	<u>Telephone</u>	
13. City of Cornwall	Mr. M. A. Boyer	Office	613-932-6252
		Res.	613-932-9299
14. Domtar Fine Paper (Howard Smith Div.)	Mr. I. E. Davidson	Office	613-932-6620
		Res.	613-933-5249
15. Courtauld's (Canada) Ltd.	Mr. W. Sutcliffe	Office	613-933-1180
	Nights and Holidays		613-933-2711
16. Village of Iroquois	Mr. Jack Fetterly	Office	613-652-4841
		Res.	613-652-4438
17. Chemcell (Cornwall) Ltd.	Mr. W. W. Cram	Office	613-933-5822
		Res.	613-933-4654



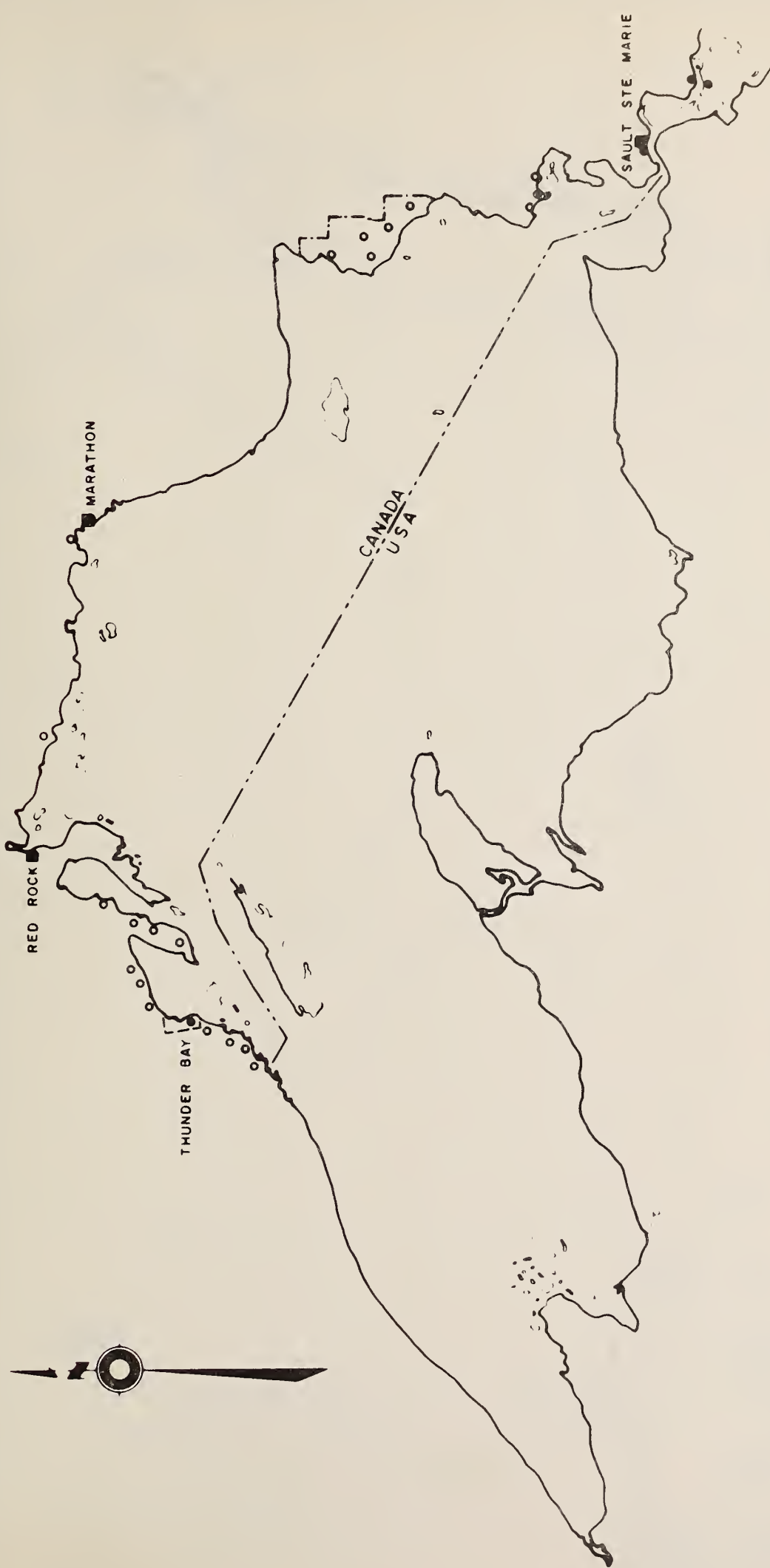


FIGURE X600.8

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

LAKE SUPERIOR  
RECREATIONAL AREAS

LEGEND

- — RECREATIONAL AREAS
- — RECREATIONAL HARBOURS

SCALE	10 5 0 10 20 30 40 50 MILES
DRAWN BY	ARS
CHECKED BY	
	DATE JULY, 1970
	DRAWING NO 70-99-G





FIGURE X600.9

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

LAKE HURON  
RECREATIONAL AREAS

SCALE: 25 20 15 10 5 0 25 MILES

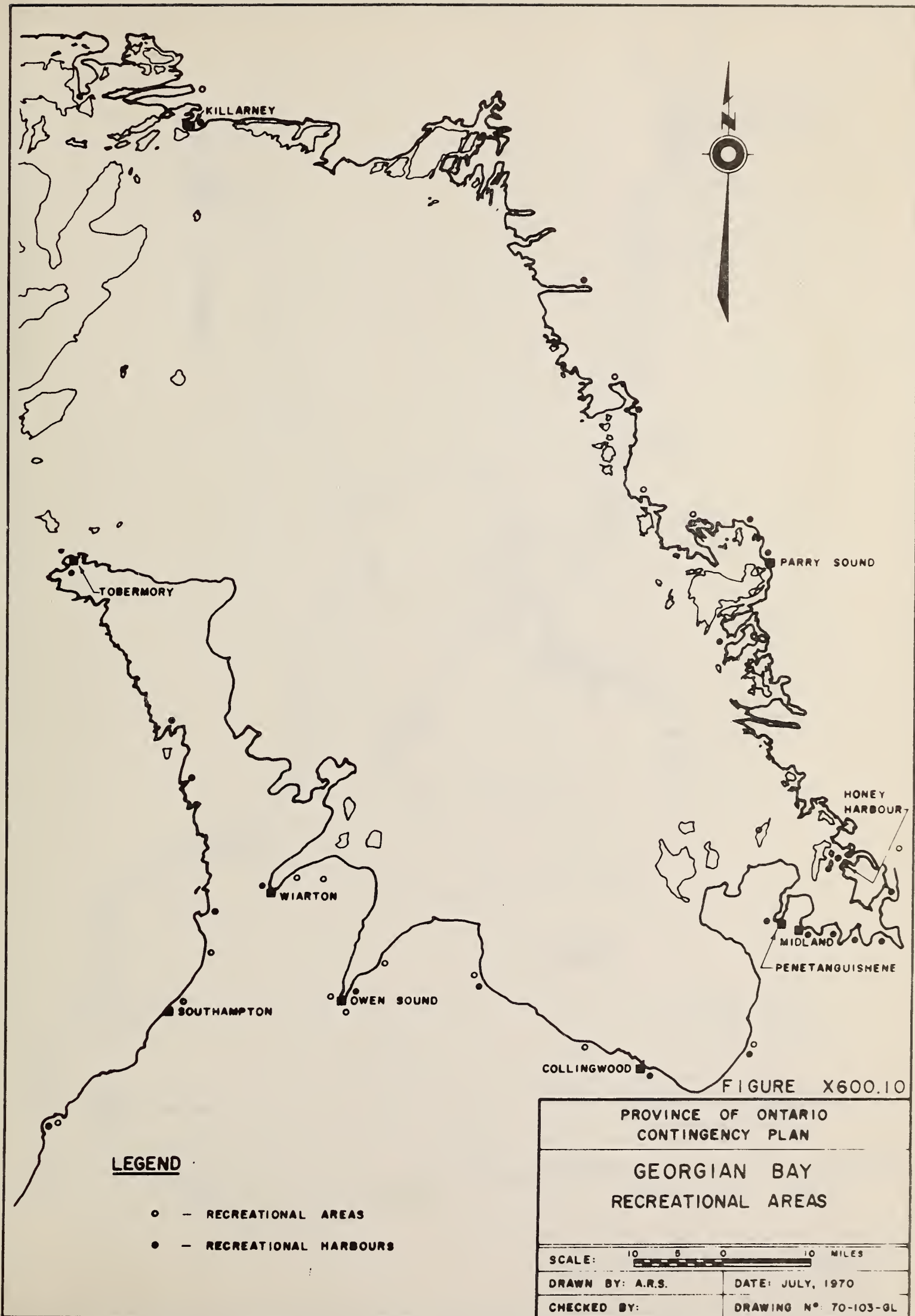
DRAWN BY: A.R.S.

DATE JULY, 1970

CHECKED BY:

DRAWING N<sup>o</sup>: 70-102-GL

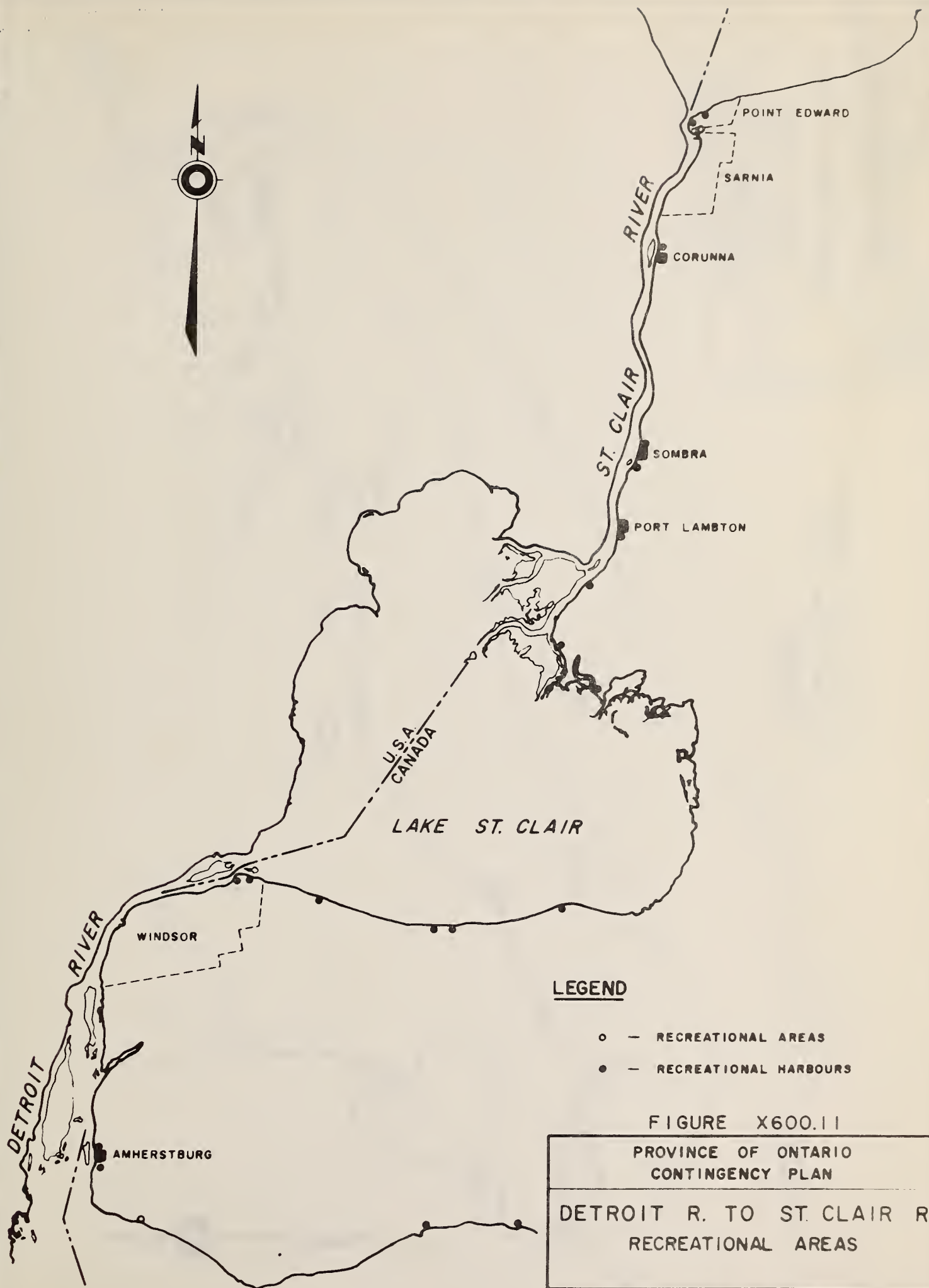












# **LEGEND**

- — RECREATIONAL AREAS
- — RECREATIONAL HARBOURS

FIGURE X600.11

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

DETROIT R. TO ST. CLAIR R.  
RECREATIONAL AREAS

SCALE: 5 4 3 2 1 0 5 10 MILES

DRAWN BY: A.R.S.

DATE: JULY, 1970

CHECKED BY:

DRAWING N° 70-100-6L



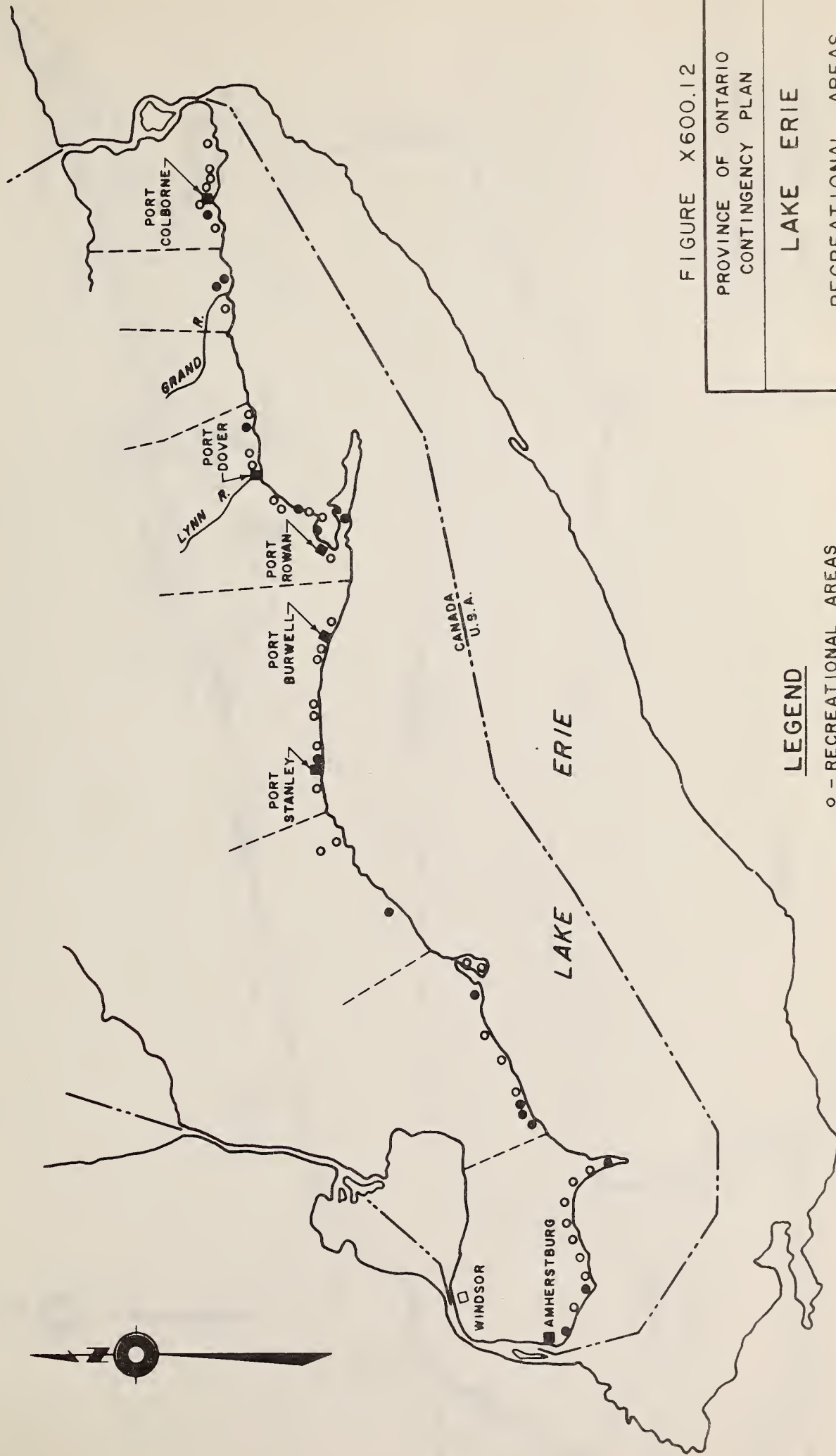


FIGURE X600.12

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

LAKE ERIE

RECREATIONAL AREAS

LEGEND

- - RECREATIONAL AREAS
- - RECREATIONAL HARBOURS

SCALE 0 5 10 15 20 25 30 35 40 MILES

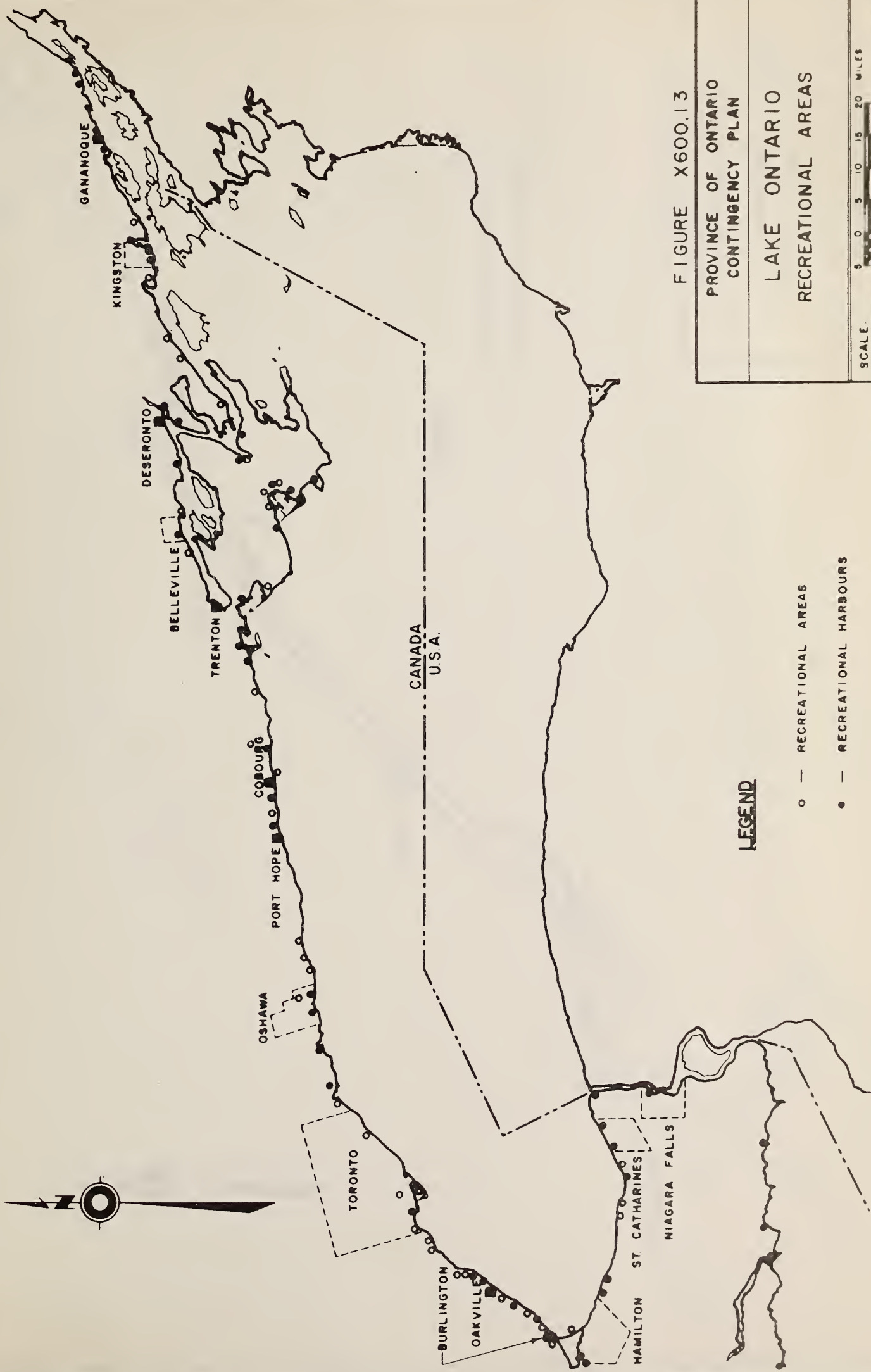
DRAWN BY A.R.S.

DATE JULY, 1970

CHECKED BY

DRAWING NO. 70-59-GL





**LEGEND**

- — RECREATIONAL AREAS
- — RECREATIONAL HARBOURS

FIGURE X600.13

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

LAKE ONTARIO  
RECREATIONAL AREAS

SCALE 0 5 10 15 20 MILES

DRAWN BY A.R.S.

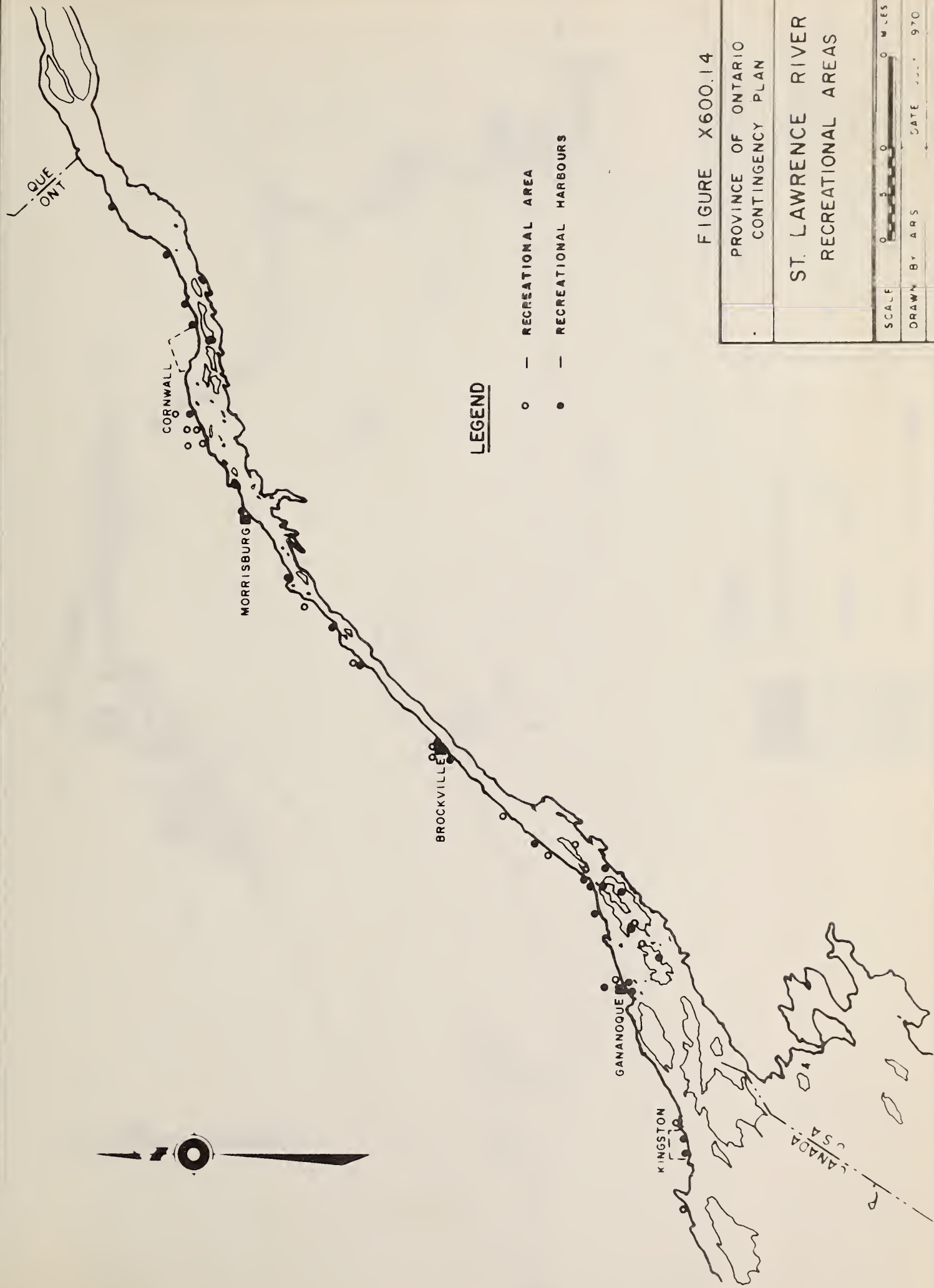
DATE JULY, 1970

CHECKED BY

DRAWING NO. 70-10-G.L.







LEGEND

- — RECREATIONAL AREA
- — RECREATIONAL HARBOURS

FIGURE X600.14

PROVINCE OF ONTARIO CONTINGENCY PLAN	
ST. LAWRENCE RIVER RECREATIONAL AREAS	
SCALE 0 5 10 MILES	
DRAWN BY ARS	DATE JULY 1970
CHECKED BY	DRAWING NO. 100-14-30







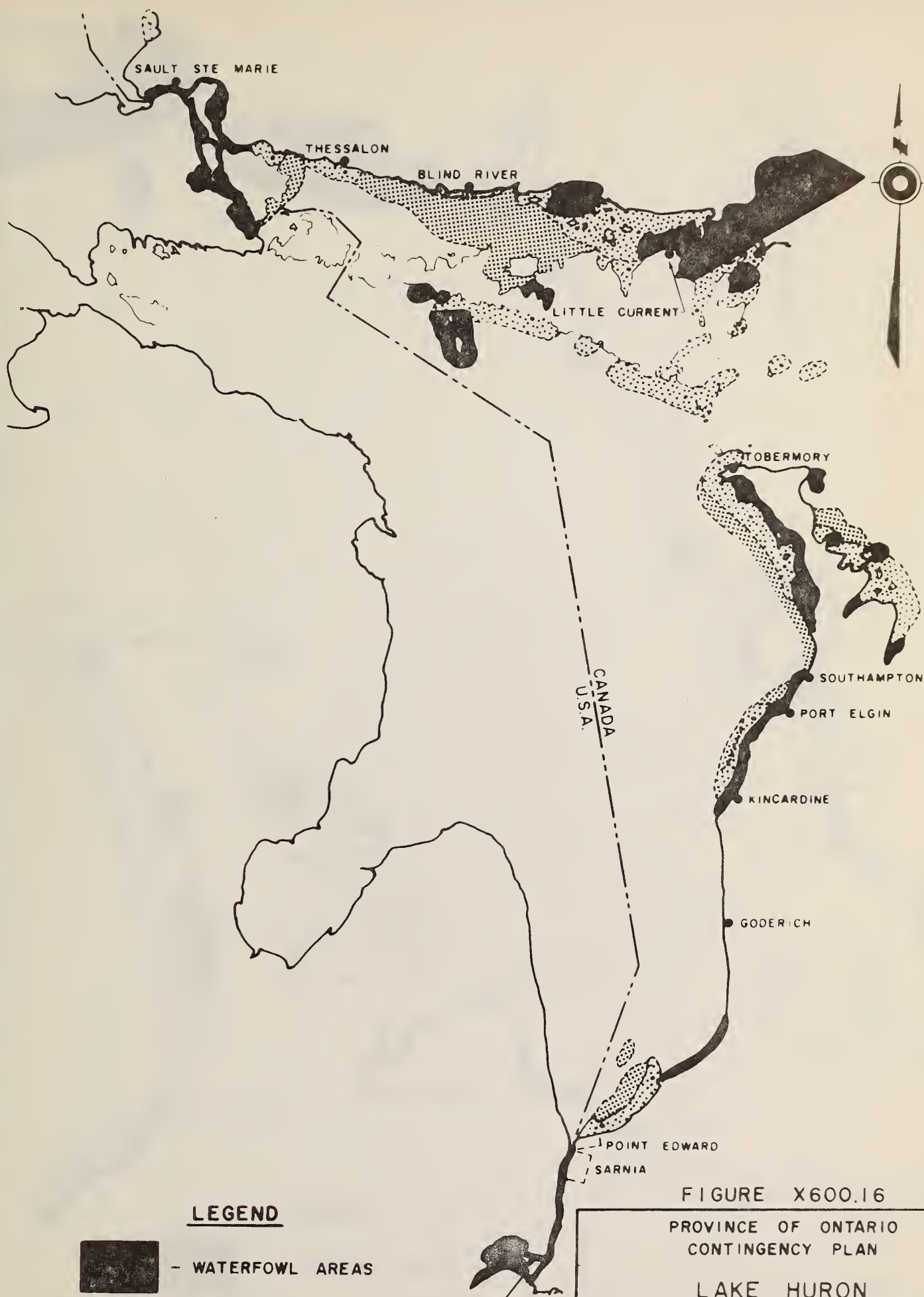
FIGURE X600.15

PROVINCE OF ONTARIO CONTINGENCY PLAN	
LAKE SUPERIOR WATERFOWL, SPAWNING AND FISHING AREAS	
SCALE 10 5 0 10 20 30 40 50 MILES	DATE JULY, 1970
DRAWN BY ARS	CHECKED BY
DRAWING NO 70-99-GL	

LEGEND

- WATERFOWL AREAS
- SPAWNING AREAS
- INTENSIVE FISHING AREAS





**LEGEND**




-  - WATERFOWL AREAS
-  - SPAWNING AREAS
-  - INTENSIVE FISHING AREAS

FIGURE X600.16

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

LAKE HURON  
WATERFOWL, SPAWNING AND  
FISHING AREAS

SCALE 25 20 15 10 5 0 25 M.F.S.

DRAWN BY ARS

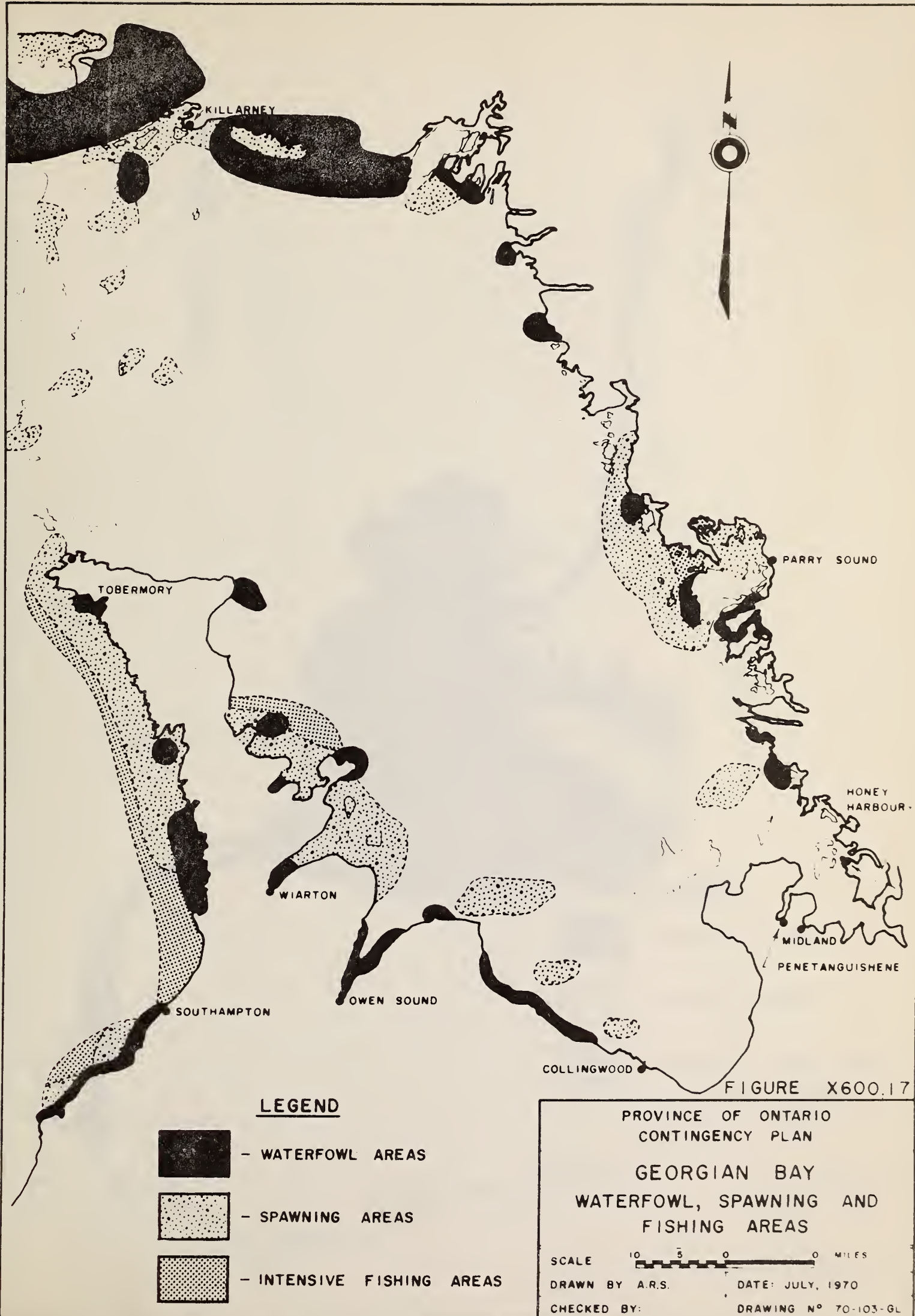
DATE JULY, 1970

CHECKED BY

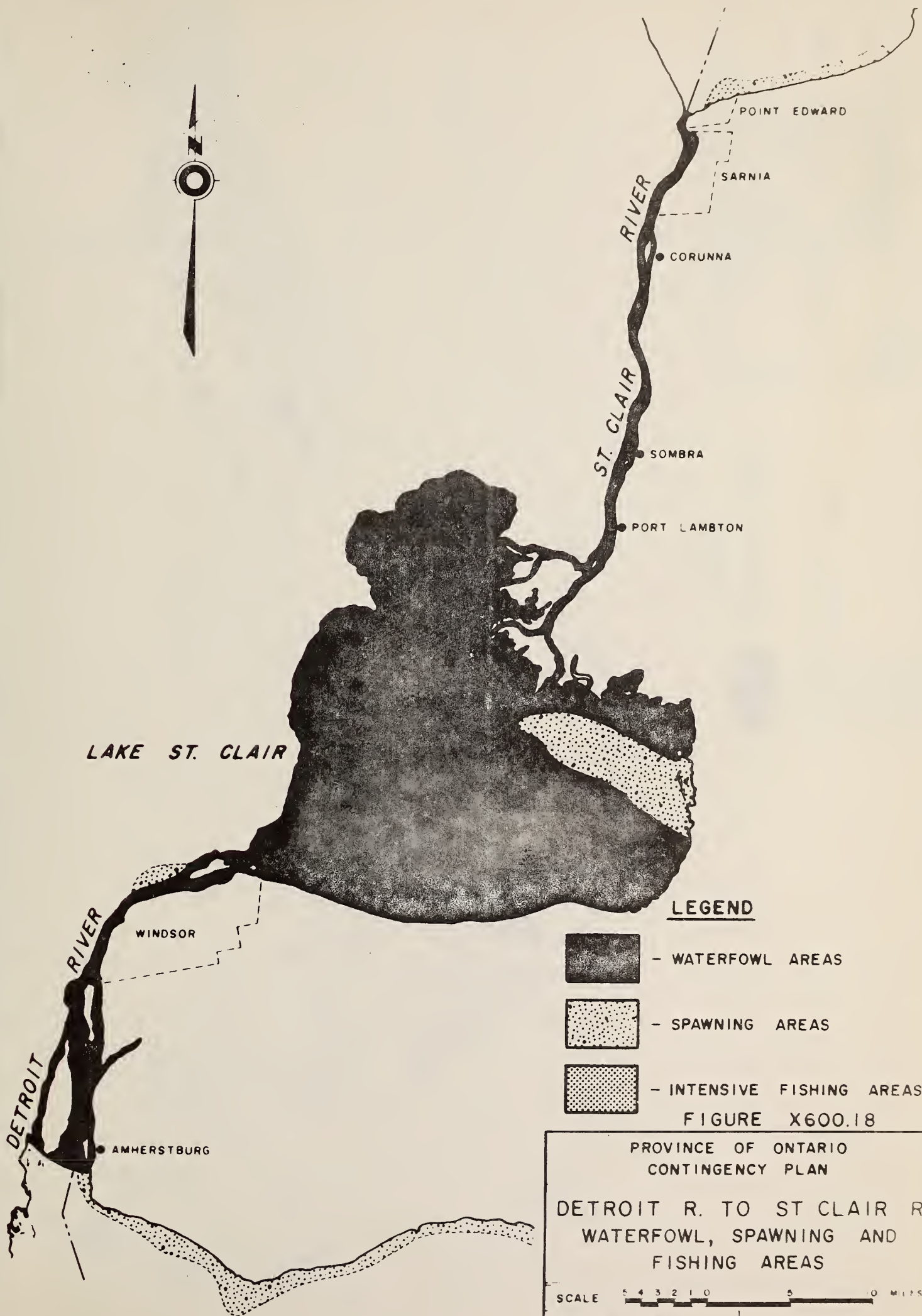
DRAWING NO 70-102 G.











#### LEGEND



- WATERFOWL AREAS



- SPAWNING AREAS



- INTENSIVE FISHING AREAS

FIGURE X600.18

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

DETROIT R. TO ST CLAIR R  
WATERFOWL, SPAWNING AND  
FISHING AREAS

SCALE 5 4 3 2 1 0 5 10 MILES

DRAWN BY ARS

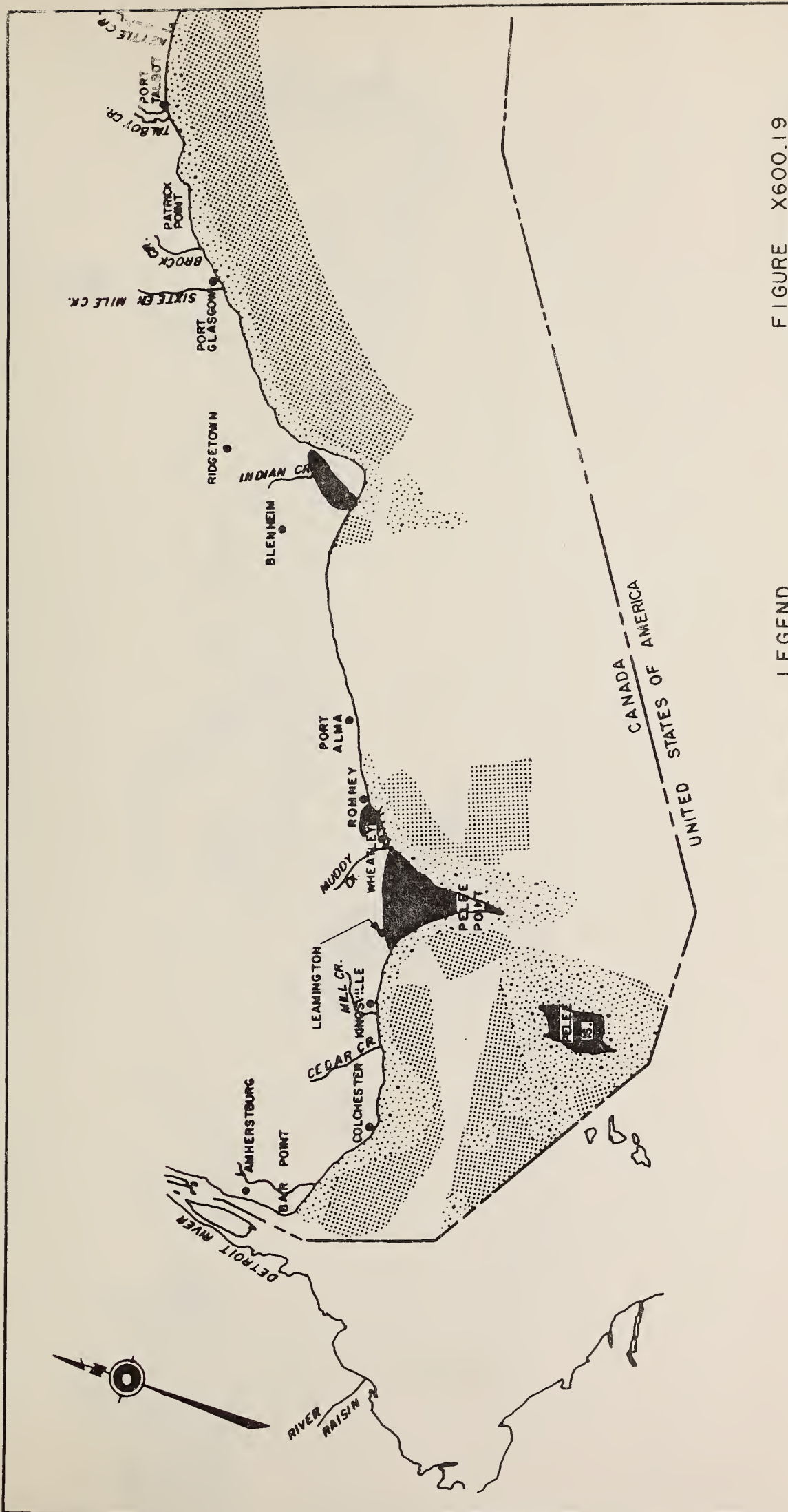
DATE JULY, 1970

CHECKED BY

DRAWING NO 70-100 GL







# LEGEND

- WATERFOWL AREAS
- SPAWNING AREAS
- INTENSIVE FISHING AREAS

FIGURE X600.19

PROVINCE OF ONTARIO  
CONTINGENCY PLAN

## LAKE ERIE WATERFOWL, SPAWNING AND FISHING AREAS

SCALE: 1:50,000	10 M.L.
DRAWN BY: R. L.	DATE: JULY, 1970
CHECKED BY:	DRAWING NO.



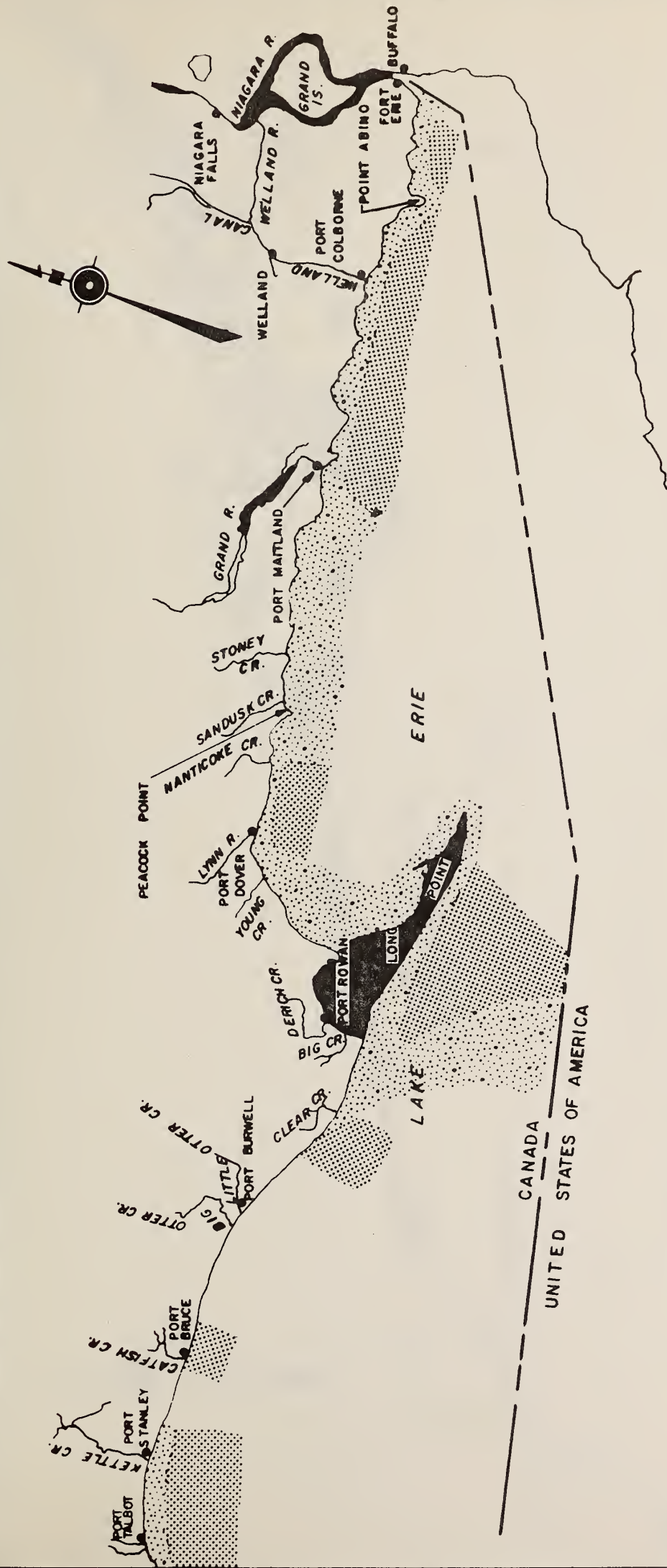


FIGURE X600.20

PROVINCE OF ONTARIO CONTINGENCY PLAN	
LAKE ERIE WATERFOWL, SPAWNING AND FISHING AREAS	
SCALE: 1:50,000	DATE: JULY, 1970
DRAWN BY: R L	CHECKED BY: [Signature]
DRAWING NO. 101	

# LEGEND

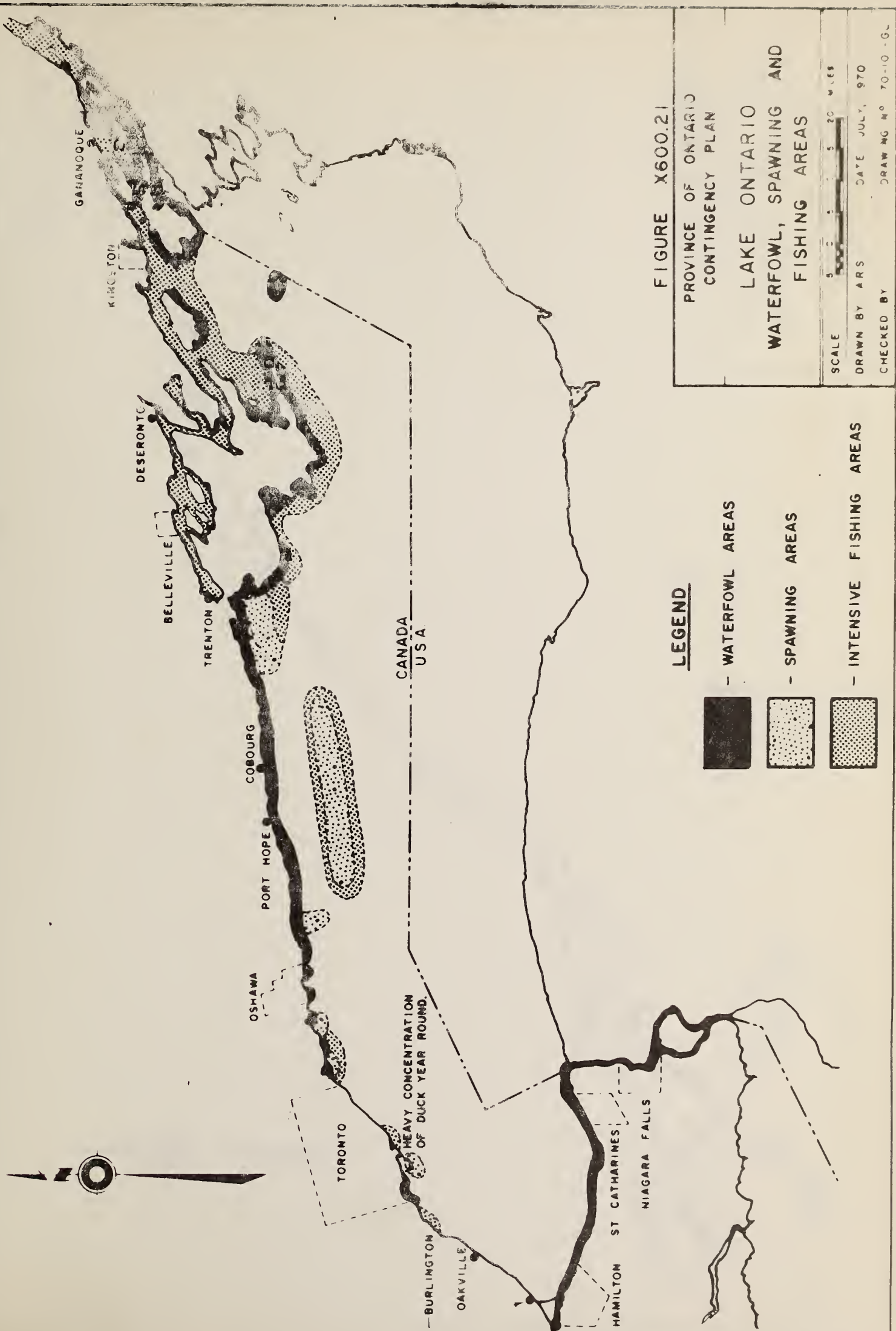
— WATERFOWL AREAS

— SPAWNING AREAS

— INTENSIVE FISHING AREAS









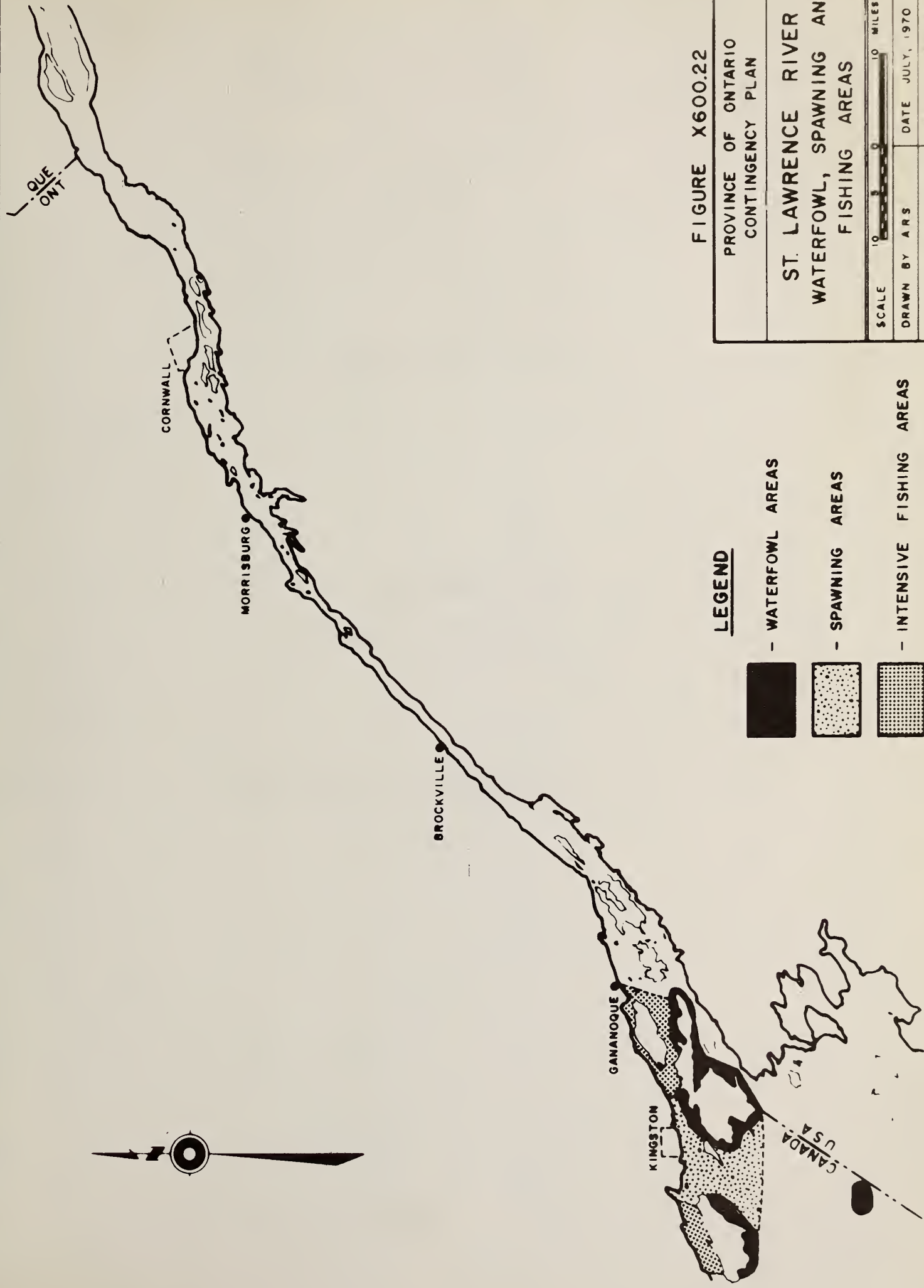


FIGURE X600.22

PROVINCE OF ONTARIO CONTINGENCY PLAN	
ST. LAWRENCE RIVER WATERFOWL, SPAWNING AND FISHING AREAS	
SCALE 0 5 10 MILES	
DRAWN BY ARS	DATE JULY, 1970
CHECKED BY	DRAWING NO. TO 104-GL

LEGEND

- WATERFOWL AREAS
- SPAWNING AREAS
- INTENSIVE FISHING AREAS





APPENDIX X700

ONTARIO OPERATIONS CENTRE

INVENTORY OF EQUIPMENT

for

CONTAINMENT AND CLEAN-UP

OF OIL SPILLS



## BOOMS

### 1. TORONTO

- A. Toronto Harbour Commission  
Four oil slick bars, 500-500-300-200 ft. lengths  
6" floats and 8" fin stored in metal containers  
Contact Mr B. Guest  
Office : 416-362-7011  
Home : 416-222-7241
- B. Canadian National Railway  
One oil slick bar 100 ft. length  
4" floats and 6" fin
- C. Western Lake Ontario Refineries  
Four TT booms 164 ft. length 1' freeboard 2' skirt  
Shift supervisor Shell Canada Ltd. 416-923-2481
- D. Trans-Northern Pipeline Co.  
400 ft. flexyboom 12" freeboard 24" skirt  
mounted on trailer  
Contact: Mr L. Leadbeater, Office 416-924-3353,  
Home 416-244-2863  
Mr W. T. Currie, Office 416-689-6641,  
Home 416-648-2960  
Mr D. A. B. MacRae, Office 416-689-6651,  
Home 416-689-6290

### 2. HAMILTON

- A. Hamilton Harbour Commission  
Three oil slick bars, 500-250-250 ft. lengths  
6" floats and 8" fin, stored in plywood boxes  
Hamilton Harbour Police - 24 hr. - 416-529-3423.

### 3. NANTICOKE

- A. Place, Gas & Oil Ltd.  
100' oil slick bar.  
Phone: 519-587-2523.

### 4. SARNIA

- A. Imperial Oil Enterprises Ltd.  
Shift Superintendent 519-337-8221  
One 164' TT boom 24" skirt and 12" freeboard.  
One oil slick bar 100'.
- B. Shell Canada Ltd.  
Shift Superintendent 519-862-1491  
One oil slick bar 130'.



5. OTHER

- A. Industrial Plastics Canada Ltd.  
Fort Erie, 416-871-0412.  
Slick bar - oil boom and oil recovery systems
- B. Flexy Oil Boom.  
Smith-Anderson Co. Ltd.  
Montreal. Tel: 514-842-5211.  
Telex: 05-25365  
TWX : 610-421-3213



## CHEMICALS

### 1. TORONTO

- A. Esso Chemicals stockpile Correxite  
Contact 416-638-1010, 24-hour.

### 2. ERIE

- A. Consolidated West Petroleum Ltd.  
Mr M. Schoger - Office - 519-689-4203  
                  - Res. - 519-689-4480  
Tug "C. Westpete"  
Oil dispersant system: 20 gals. correxite tank

### 3. LAKE ERIE OPERATORS

- A. All drilling platforms are equipped with oil  
dispersant systems with hoses and nozzles  
to handle minor slicks.

### 4. SARNIA

- A. Imperial Oil Enterprises Ltd.,  
Phone 519-337-8221  
45 gal. drums Correxite 7664





SORBANTS, STRAW, HAY, SAWDUST, ETC.

1. TORONTO

- A. Department of Highways (Maintenance Engineer,  
Mr E. J. Orr, Office 416-365-3665, home  
416-249-1147) can advise on location of straw  
and Straw Mulch Blowers in Ontario, also  
contact for private stockpiles of straw and  
peat moss.
- B. Glen Ogilvie Ltd.  
Stockpile of PEAT MOSS  
Toronto Office 416-231-0589  
Caledonia " 416-765-4531
- C. Reeves Hardifoam, Etobicoke, Ontario.  
Stock of POLYURETHANE  
Mr Ed Duliban Office, 416-259-8451, home  
416-621-5542  
Mr Tom Horn, Office 416-259-8451, home  
416-637-8630

2. HAMILTON

- A. Hydroflex Hose Company  
21 Sanford Avenue North  
Stock of EKOPERL, 2-300 bags  
Mr D. Whitefield, Office 416-528-1448,  
home 416-528-7336  
Mr M. Gold, Office 416-528-1448, home  
416-MA8-8140

3 WOODVILLE

- A. Jack Montague Ltd.  
Stockpile of STRAW, PEAT MOSS  
mulchers and trucks for transportation  
Mr J. Montague, Office 705-439-2913, home



## SKIMMERS AND VACUUM TRUCKS

### 1. TORONTO

- A. Dominion Welding Co. Ltd.,  
Slick Licker (Oleovator) 11ft. belt 34" wide  
transport by truck or airlift  
Mr D. Smith, Office 416-889-4861, home  
416-889-7002

### 2. SARNIA

- A. Shell Canada Ltd.  
Contact Mr T. Barry 419-862-1491  
One floatation skimmer, require pump or vacuum  
truck to operate
- B. Imperial Oil Enterprises Ltd., shift superintendent  
519-337-8221, 2 floating type skimmers equipped  
with 50 ft. hose and with electric or gas driven  
pump.  
1 vacuum truck.

### 3. ST. ANDREWS WEST

- A. Floating type skimmer and centrifugal oil-water  
separation complete with generator requiring boat  
and man power.  
Oil Sweeper Corp. of Can. Ltd.  
24 hr. telephone. 613-933-4015.



## MISCELLANEOUS

### 1. TORONTO

- A. Ontario Water Resources Commission  
Mr S. E. Salbach, Program Engineer  
Great Lakes Surveys Program. 365-6954

#### MONITOR I

19' Neptune Cruiser will be operating in St. Lawrence, Niagara and St. Marys rivers. Is equipped with trailer. Maximum speed 25 knots. Cruising speed 18 knots.

#### MONITOR II

28' Georgian steel hull cruiser.  
Maximum speed 25 knots, cruises at 20 knots.  
Will operate in Detroit and St. Clair rivers.

#### MONITOR III

62' steel hull cruiser.  
Maximum speed 12 knots, cruising speed 8 knots.  
Will operate in Lake Ontario and Lake Erie.

- B. Ontario Provincial Police  
Equipment available to provide initial communications, arrangements should be made through Ontario Operations Center.

- C. Western Lake Ontario Refineries  
Contact Shift Supervisor, Shell Canada Ltd.,  
416-923-2481.
- 26 ft. launch jointly leased by Gulf and Shell on stand-by basis at Metro Marine, Bronte.
  - A trailer equipped with the following:
    - 1 length (164ft.) TT boom
    - 2 drums dispersant
    - 6 bales straw
    - 25 spill bags (ureaformaldehyde foam)
    - 4 hip waders
    - 2 life belts
    - 4 life jackets
    - 1 knapsack sprayer
    - 200 ft. nylon rope
    - 50 ft. aluminum mesh fencing.
    - Miscellaneous tools, pitch forks, etc.
- A 12' aluminum rowboat  
3 two-way radio sets are kept on charge in the Instrument shop.  
1 Eductor for use with firehose and drums of dispersant are also available.



2. BURLINGTON

- A. CCIW, Dr LeFeuvre 416-632-1940  
For use of vessel refer to listing on size,  
power and location at Ontario Operations Center.

3. LAKE ERIE

- A. Consumers' Gas Co.  
Contact 416-443-5000
- i Tug - "C. Westpete"  
Stationed Erieau, draft 6'1", speed 9 knots  
sleeping quarters and galley equipped with  
oil dispersant system.
- ii Tug - "Long Point Gas"  
draft 5'6", speed 12 mph  
equipped with oil dispersant system.
- iii Tug - "Ungas"  
draft 4'8", speed 12 mph  
equipped with oil dispersant system.
- iv Tug - "Erieau"  
draft 3'5", speed 10 mph  
not equipped with oil dispersant system.
- v Tug - "Petco"  
draft 3'2", speed 11 mph  
not equipped with oil dispersant system.
- vi Scow - "Ungas III"  
draft 1'5"  
maximum allowable load: 60 tons.

The above listed tugs frequently are stationed at  
Port Stanley, Port Colborne, Port Burwell , Erieau  
depending on location of drilling operations.

4. AYLMER

- A. Department of Lands and Forests 519-773-9241  
Mr W. B. M. Clarke. 10 vessels ranging 16 to  
45 ft. length equipped with 50 to 150 h.p. motors.





5. SARNIA

- A. Imperial Oil Enterprises Ltd.  
25 ft. boat equipped with two 500 gpm  
Chrysler Industrial water pumps and two  
Fire Monitors for correxit application.



APPENDIX X800

NINTH U. S. COAST GUARD DISTRICT

INVENTORY EQUIPMENT

for

CONTAINMENT AND CLEAN-UP

OF OIL SPILLS



## BOOMS

X800

### 1. COTP OSWEGO ZONE

- A. St. Lawrence Seaway Development Corporation, Messena,  
New York 1000 feet floating plastic oil boom (slickbar)

### 2. COTP BUFFALO ZONE

- A. Department of Public Works, Buffalo, New York  
One 370' plastic oil boom 6" diameter float 18" skirt (slickbar)
- B. Republic Steel Corporation, Buffalo, New York  
One 200' plastic oil boom, 6" diameter float 18" skirt (slickbar)
- C. Erie County Public Works Department, Buffalo, New York  
One 350' plastic oil boom, 6" diameter float 6" skirt (slickbar)
- D. Bethlehem Steel Corporation, Buffalo, New York  
One 150' plastic oil boom, 6" diameter float 6" skirt (slickbar)
- E. Port Authority, Rochester, New York  
One 1000' plastic oil boom, 4" diameter float 6" skirt (slickbar)
- F. Mobile Oil Company, Buffalo, New York  
390' of plastic oil boom (slickbar) 6" float, 6" skirt
- G. Ashland Oil Co., Tonawanda, New York  
100' of plastic oil boom (slickbar) 6" float, 6" skirt

### 3. COTP CLEVELAND ZONE

- A. Harbor Master/COTP CLEVELAND, Tel: 522-4409/694-3256  
1000' (slickbar)

### 4. COTP DETROIT ZONE

- A. Mobile Oil Company, West Allen Road, Trenton, Michigan  
100' section slickbar floating plastic oil  
10' fin, standard weight  
Mobil has ordered 500' of same type boom



4. B. Standard Oil Company, Ft. of Wilder Road, P.O. Box 38,  
Bay City, Michigan.  
200' section slickbar 6" fin, standard weight.
- C. Dow Chemical Co., 4868 Wilder Road, Bay City, Michigan.  
2500' slickbar in 100' section.  
For information, Dow Chemical, Midland, Michigan has a  
complete fire department with capabilities of oil removal  
under Chief Earl Forten. Dow also produces in Midland all  
components that are used in making standard slickbars.
- D. Ford Motor Company, 3001 Miller Road, Dearborn, Michigan.  
600' English Warne type booms in 100' sections maintained in  
place at Ford River Rouge Plant.  
One Standard Oil make skimmer maintained at Ford River Rouge  
Plant.
- E. Marine Pollution Control Corp., 214 Randolph St., Detroit, Mich.  
200' section slick bar 6" fin, standard weight.
- F. Ford Motor Co., 3001 Miller Road, Dearborn, Mich.  
100' section slickbar floating plastic oil boom 4" float,  
6" fin weighted for 2 1/2 - knot current.

5. COTP CHICAGO ZONE

- A. American Oil Co., Riley Road and Indiana Harbour Ship Canal,  
East Chicago, Ind. Phone: Mr. Windhauser: 219-659-2700.  
Ext. 217 or 216. Day: FTS 219-932-5500. Nights and Weekends:  
219-397-4039 (if no answer, call 219-659-2700 Ext 343).  
One 6" by 250'; two 6" by 500' booms.
- B. Bethlehem Steel Corp., Burns Harbor, Indiana  
Phone: 219-652-2120.  
FTS 219-886-2411  
One 8" by 150' boom.
- C. Cities Service, Columbus Drive, East Chicago, Indiana  
Phone: Mr. Stover 219-397-6560 Ext 342  
Mr. Knight 219-397-6560 Ext 253  
FTS 219-932-5500  
Nights and Weekends: 219-397-6560 (Ask for foreman)  
One 4" by 350' boom.





- D. Globe Oil and Refining Co., Willow Springs, Illinois  
Phone: 312-839-5220  
One 6" by 30' boom.
- E. Inland Steel Co., East Chicago, Illinois  
Phone: Mr. J. Kapitan (Fire Chief): 219-397-2300 Ext. 2035  
FTS 219-932-5500  
Two 6" by 200' booms
- F. Mobil Oil Co., 3821 Indianapolis Blvd., East Chicago, Indiana  
Phone: Mr. Murray: 219-397-1950  
FTS: 219-932-5500  
Nights and Weekends 219-397-1950 (Ask for foreman)  
One 4" x 250' boom, One 4" x 350' boom
- G. Pure Oil Co., Lemont, Illinois  
Phone: 312-257-2201  
Four 6" x 100' booms.
- H. Phillips Pipeline Co., 400 East Columbus Dr., East Chicago, Indiana. Phone: Mr. Staton 219-397-6666  
FTS 219-932-5500  
Nights and Weekends 219-397-6666  
(ask for operator leadman)  
One 4" x 350' (trailer mounted)
- I. Shell Oil Co., Columbus Dr., East Chicago, Indiana  
Phone: Mr. Austin 219-845-4502  
FTS 219-932-5500  
One 4" x 250' boom.
- J. Sinclair Refining Co., 3500 Indianapolis Blvd., East Chicago, Indiana. Phone: 219-397-0924 (ask for shift foreman)  
FTS 219-932-5500  
Two 4" x 350' booms one is semi permanently installed.
- K. Texaco Co., 3600 Canal St., Indiana  
Phone: Mr. Eaton 219-397-0908  
FTS 219-932-5500  
Nights and Weekends 219-838-8881  
One 4" x 400' boom.



- L. Texaco Inc., Lockport, Illinois  
Phone: 815-838-0770  
One 8" x 100' boom.
- M. Humble Oil and Refining Co., 3301 South California Ave.,  
Chicago, Ill.  
Phone: Mr. Game, Supt. (312) 523-8100  
Night Phone: (312) 247-2615.  
One 4" by 100' boom 175 lbs.
- N. Sinclair Oil Terminal, 4100 S. Laramie, P.O. Box 48,  
Cicero, Illinois.  
Phone: Mr. L. E. Lacock Supt. 312-247-3378  
Night Phone: 312-247-3378 or 312-652-2170  
(Two (2) 4" by 200' booms 750 lbs.
- O. Marson Corp., 327 S. LaSalle St., Chicago, Ill.  
Phone: John D. Harper 312-741-9047 (24 hrs)  
Note: Equipment normally for hire  
8" by 12' (1200') booms 1500 lbs; 6" by 8' (1000') booms,  
1100 lbs.

6. COTP MILWAUKEE ZONE

- A. Milwaukee Fire Department  
750' slickbar boom with line throwing gun and truck.  
Phone: 414-347-2323  
Note: Boom not generally available for use outside of  
Milwaukee.

7. COTP LUDINGTON ZONE

- A. 500' of Slickbar oil boom at Muskegon, Mich. and 500' of  
the same type of boom at Ferrysburg, Mich. These were  
produced by local oil terminals, the Grand Trunk Western  
Railroad, and the city of Muskegon, and are primarily under  
the jurisdiction of Muskegon Fire Department.

8. COTP SAULT STE. MARIE ZONE

- A. Standard Oil Co. depot at Sault Ste. Marie Mich.  
One four-hundred foot (400'), Slickbar type oil boom.



9. COTP DULUTH ZONE

- A. Murphy Oil Company  
Superior Refinery Fuel Terminal  
Superior, Wisconsin  
Phone: 218-727-6862 (24-hour phone) Contact Walter Buck  
Common carrier; military vehicle  
130' slick bar oil boom with 4" float and 8" fin.
- B. Great Northern Refinery  
P.O. Box 3596  
Pine Bend, Minnesota.  
Phone: 612-222-4721 (24 hour phone) Contact Jud Hester  
Common carrier, 24-hour service  
One slick bar oil boom with 6" float and 6" fin-5 lengths  
totaling 1,000 feet.  
Portable surface pump  
Weight 300 lb. (approximate)  
70-foot suction hose, discharge hose with flange connection.
- C. Lakehead Pipeline Co., Pier, Superior, Wis.  
Phone: 398-6547 (Superior) Contact Charles Gilbert,  
Common Carrier; Military Vehicle  
100' plastic oil boom.

10. COTP TOLEDO ZONE

- A. Gulf Oil Co., 2935 Front St., Toledo, Ohio  
Phone: 419-729-3871.  
400' 4 x 6 slickbar, chain weighted, 74 lbs. per 100'.
- B. Standard Oil Co. Foot of Millard St. Toledo, Ohio  
Phone: 419-248-1461  
300' 4 x 6 slickbar-chain weighted, 74 lbs per 100'.
- C. Buckeye Pipeline Co. Lima, Ohio  
Phone: 419-223-4015  
200' triple weighted slickbar, 120 lbs per 100'



## CHEMICALS

### 1. OSWEGO

- A. St. Lawrence Seaway Dev. Corp.  
Massena, New York  
Phone: 315-764-0271  
500 Gal. JANSOLV-60
- B. Massena Fire Dept.  
Massena, New York  
Phone: 315-769-2464  
10 Gal. "Foilzoil"

### 2. BUFFALO

- A. American Oil Company  
McKee Road  
Rochester, New York  
15 Gals. SLIX
- B. Hess Oil Company  
22 Cairn Street  
Rochester, New York  
25 Gals. SLIX
- C. Allied Oil Company  
Cranberry Street  
Erie, Pennsylvania  
55 Gals. SLIX
- D. United Oil Company  
Cranberry Street,  
Erie, Pennsylvania  
5 Gals. SLIX
- E. Buffalo Fire Dept.  
Phone: 716-854-1674 for the following  
Dry Foam Powder  
Two motor units - 1 -1000 # unit and 500 gallons liquid foam  
at Greater Buffalo Airport  
City of Buffalo Fire Boat  
630 gallons high expansion foam





- F. Buffalo CG Station  
Phone: 716-842-2191  
21-5 gallon cans foam
- G. USCGC BUCKTHORN  
Phone: 716-842-2045  
13-5 gallon cans foam
- H. USCGC OJIBWA  
Phone: 716-842-2046  
11-5 gallon cans foam

3. CLEVELAND

- A. Magnus Chemical  
3199 W. 65th St.  
Cleveland, Ohio 44102  
Phone: 216-631-7397  
216-268-4040  
Various chemicals and emulsifiers
- B. Magnus Chemical  
5100 W. 164 st. St.  
Cleveland, Ohio 44142  
216-267-4506  
216-243-1262  
Oil Spill Disperser and Experts
- C. Ekoerl  
616 St. Clair Ave. N.E.  
Cleveland, Ohio 44114  
216-621-3210  
Oil absorbent - large quantity
- D. Alken - Murray Corp.  
5156 Thornbury Blvd.  
Cleveland, Ohio 44124  
216-771-8183  
Liquid Dispersant



E. Yosemite Chemical Co.  
Akron, Ohio  
216-762-2616  
Spill - Away

4. DETROIT

A. Marine Pollution Control Corp.  
214 Randolph Street  
Detroit, Michigan 48226  
Mr. David Usher Home Phone: 313-548-1234  
Office " 313-931-1035  
400 Gallons Oil disperser as well as other pollution control  
equipment.

5. CHICAGO

A. Pure Oil Company  
Mile 297.5  
Lemont, Illinois  
Mr. Gerharz Phone: 257-2201  
Home: 257-2171  
90,000 lbs. foam powder in 50 lb. pails  
400 lbs, dry chemical powder.  
105 Gal. 3% mechanical liquid foam

B. Texas Company  
West 2nd Street  
Box 200  
Lockport, Illinois  
Mr. J. R. Cutler Phone: 815-838-0770  
Home 815-838-0744  
Mr. J.C. Jarratt Phone: 815-838-0770  
Home: 815-838-1242  
38,000 lbs. dry foam powder in 50 lb. pails  
645 lbs. 3% mechanical liquid foam

C. Smith Oil Company  
P.O. Box 5 West Market  
Peru, Illinois  
Mr. F. Tielman Phone: 815-223-3035  
Spring Valley 3-0314 (nights)  
100 5 Gal. Pails 6% mechanical foam



- D. Getz Fire Equipment Company  
Phone: 309-673-0761  
1615 West Adams  
Peoria, Illinois  
60 (5) Gal. cans 3% mechanical foam  
50 Gals. Kiddle High Expansion Foam  
5 Gals. Mine Safety foam.
- E. Clark Oil and Refining Company  
131 Street and Kedzie Avenue  
Blue Island, Illinois  
Mr. Schutz Phone: 285-5000 Ext. 202  
4700 lbs. of dry chemical  
600 Gals. 3% liquid mechanical foam in 5 gal. cans  
150 Gals. 6% mechanical foam  
3850 lbs. 3% liquid mechanical foam  
27,350 lbs. of 2+1 foam powder
- F. Pure Oil Company  
4801 South Harlem Avenue  
Chicago, Illinois  
Mr. Johnson: Phone: 484-7800  
330 Gals. of 3% mechanical foam
- G. Harlem Avenue Bridge  
Lake River Terminal  
Harlem Avenue, Bridge and Canal  
Mr. Krestan Phone: 242-2300  
200 Gals. 3% liquid foam
- H. Standard Oil Company  
4811 South Harlem Avenue  
Berwyn, Illinois  
Mr. Fabray: Phone: 242-3480  
125 Gals. 3% liquid foam.
- I. General American Tank  
Storage Terminal  
67 Street and Archer Road  
Argo, Illinois  
Mr. Ferry, Phone: 581-2340  
Home 424-6683



- I. General American Tank (cont'd)  
Mr. MacDonalds Phone: 581-2340  
Home: 458-3281  
70,100 lbs. (50 lb. pails) foam powder  
22,440 lbs. (50 lb. pails) chemical powder
- J. Charles R. Teas Co. Inc.  
13825 South Indiana Avenue,  
Chicago, Illinois  
Mr. W. O. O'Conner, Phone: 849-8840  
Home: 233-5731  
Mr. Teas Phone: Home: 849-2273  
3,000 Gal. 3% mechanical foam  
3,000 lbs. Purple K dry chemical  
20,000 lbs. Plus 50 dry chemical
- K. Walter Kidde and Co. Inc.  
1314 West Randolph Street,  
Chicago, Illinois  
Mr. Vonckx, Phone: 252-1910  
1,000 Gals. High Expansion Foam.
- L. Mobil Oil Company  
3821 Indianapolis Blvd.,  
East Chicago, Indiana Phone: Mr. C. Smoljan 219-397-1950  
8-40 Gal. Liquid Foam Carts
- M. Sunshine Chemical Company  
P.O. Box E.  
Highland Park, Illinois 60035  
Mr. Bill Katz, Phone: 312-433-1145  
Mr. Steve Kausman, Phone: 203-232-9227  
Various chemical and equipment for combating oil spills
- N. The Texas Company  
3600 Canal Street  
East Chicago, Illinois  
Mr. Eaton, Phone: 219-397-0908  
7,500 Gals. Foamite





- O.   Whiting Refinery Amer. Oil Co.  
2400 New York Avenue  
c/o Fire Department  
Whiting, Indiana  
Mr. Kaminsky, Phone: 219-659-2700 Ext 243  
(1) truck with 2,000 lbs. dry chemical powder.
- P.   Sinclair Refinery Company  
3500 Indianapolis Blvd.  
East Chicago, Indiana  
Mr. Niemann, Phone: 219-768-2866  
Mr. Carpenter, Phone: 219-398-0924  
One 350 lb. Ansul dry powder 962 lb.  
One 150 lb. Ansul dry powder extinguisher 487 lbs.
- Q.   Able Fire and Safety Company  
260 N. Fairfield  
Chicago, Illinois  
Mr. P. K. Nielsen, Phone: 826-5555 (24 hrs)  
1,500 Gals. High Expansion Foam.  
1,600 Gals. Rockwood Protein Foam.  
2,600 lbs. dry chemical powder  
2,600 lbs. Purple K powder
- R.   HI-EX Co.  
1733 East 75th Street  
Chicago, Illinois  
Mr. O. J. Kelly, Phone: 363-3877  
Home: 798-5239  
250 Gals. High Expansion Foam.
- S.   Humble Oil and Refining Co.  
3301 So. California Ave.  
Chicago, Ill.  
Phone: Mr. Game Supt. (312) 523-8100  
Night Phone: (312) 247-2615  
42 Gals. liquid Corexit with spray gun

6.   MILWAUKEE

- A.   Milwaukee Harbor Commission  
Milwaukee, Wisconsin, Phone: 414-276-9355  
50 Gals. JANSOLV-60



- B. Milwaukee Fire Department  
Milwaukee, Wisconsin, Phone: 414-276-9355  
850 Gals. JANSOLV-60 Not available outside Milwaukee area.
- C. American Oil Co.  
Milwaukee, Wisconsin, Phone: 414-273-6117  
55 Gals. JANSOLV-60
- D. Shell Oil Co.  
Milwaukee, Wisconsin, Phone: 414-271-8700  
55 Gals. JANSOLV-60
- E. Texaco Inc.  
Milwaukee, Wisconsin, Phone: 414-271-8110  
55 Gals. JANSOLV-60
- F. Illinois Chemical Co.  
South Town Road  
New Berlin, Wisconsin  
Mr. Eugene Sperry, Phone: 414-786-3651  
Distributor for JANSOLV-60, 100 Gals. on hand.
- G. Green Bay Fire Dept.  
Green Bay, Wisconsin, Phone: 414-435-4401  
55 Gals. JANSOLV-60, with dispenser

7. LUDINGTON

- A. None

8. SAULT STE. MARIE

- A. None

9. DULUTH

- A. Duluth Air Force Base Fire Station  
Duluth, Minnesota. Phone: 727-8211 (24 hrs)  
3,000 Gals. of Liquid Foam in (5) Gal. cans

10. TOLEDO

- A. USCGC TUPELO Phone: 419-254-6450  
12-5 gal. cans foam



10. B. Toledo Coast Guard Station, Phone: 419-259-6448  
5 Gals. foam
- C. Toledo Fire Dept.  
Toledo, Ohio, Phone: 419-232-4141  
2-(5) Gal. cans foam.
- D. Gulf Oil Co.  
2935 Fron Street  
Toledo, Ohio, Phone: 419-729-3871  
2-55 Gal. Drum JANSOLV-60 3-55 Gal. Drums SLIX
- E. Standard Oil Co.  
Millard Street  
Toledo, Ohio. Phone: 419-248-1416  
2-55 G l. Drums SLIX
- F. Ashland Oil Co.  
3147 Jessie St.,  
Toledo, Ohio Phone: 419-726-2867  
(5) 6-55 Gal. Drums SLIX
- G. Sun Oil Co.  
Hocking Valley Dock  
Front Street  
Toledo, Ohio. Phone: 419-691-3561  
(5) 55 Gal. Drums SLIX
- H. American Shipbuilding Co.  
2247 Front Street,  
Toledo, Ohio, Phone: 419-691-2475
- I. Miller Oil Co.,  
Fire Extinguishers: Two 15 lb. CO<sub>2</sub>
- J. J. Buckeye Pipeline  
Fire extinguishers: Three-150 lb. DC on wheels;  
Fifteen-15 lb. DC



ABSORBENTS, STRAW, HAY, SAWDUST, ETC.

1. OSWEGO

A. None

2. BUFFALO

A. Bailey Feed Co  
1578 Clinton Street  
Phone: 716-822-6349  
Hay and straw \$1.10 per bale  
300 to 400 bales on hand at all times

3. CLEVELAND

A. Broadview Seed and Feed Co.  
Phone: 749-1221  
100 bales straw or hay.

B. United Farmer Exchange  
Phone: 235-3172  
100 bales straw or hay

C. Wilson Feed Mill  
Phone: 216-524-7080  
100 bales straw or hay.

D. Herrman-Mclean Co.  
Phone: 216-771-1131  
150 bales straw or hay

4. DETROIT

A. Lazoen Hay and Feed Co.  
26549 Lawrence  
Centerline, Mich.  
200 bales straw, 200 bales hay

B Marine Pollution Control Co.  
214 Randolph Street  
Detroit, Mich.  
400 lbs Ecoperl oil absorbent (dry)





5. CHICAGO

- A. Northwestern Salt and Feed Co.  
1800 N. St. Louis Street  
Chicago, Illinois.  
Phone: 317-772-7200  
Straw - \$35 per ton. (May be delivered within 24 hrs)

6. MILWAUKEE

- A. None

7. LUDINGTON

- A. None

8. SAULT STE. MARIE

- A. None

9. DULUTH

- A. B&B Feed and Grain Co  
2402 West Superior St.  
Duluth, Minnesota.  
Phone: 722-9188 Contact Greg Birch - 715-392-2700 (home)  
Hay and Straw, 50 bales @ .65 per bale.  
50 lb bale, size 1 1/2' x 1 1/2 x 3 1/2
- B. Lepake Lumber Co.  
4300 West 2nd St.  
Duluth, Minnesota  
Phone: 628-1011 - Bernard Lepake 724-1055 (home)  
@ .75 per bag \$20 truckload (sawdust) (delivered)  
@ .65 per bag (picked up)  
2 ton truckload - \$20 (15 cu. yds.)

10. TOLEDO

- A. The Andersons Mrs. Tucker  
Phone: 419-893-6551 or 419-882-3410  
Hay



B. Mr. Richard Jacobs  
Phone: 472-1109  
Sawdust

C. Creque Bros.  
5050 S. Main  
Toledo, Ohio  
Phone: 419-536-1203  
Hay



## SKIMMERS AND VACUUM TRUCKS

### 1. OSWEGO

A. None

### 2. BUFFALO

A. Bethlehem Steel Co.  
3535 Lakeshore  
Lawawana, New York  
One 300 floating type gasoline driven  
One 55 GPH conveyer type

### 3. CHICAGO

- A. American Oil Co.  
2400 New York Ave.  
Whiting Indiana  
Phone: Mr. Kaminsky (219-659-2700)  
One vacuum pickup truck 2 tons.
- B. Clark Oil Co.  
131 st. and Kedzie Ave.  
Blue Island Illinois  
Phone: Mr. Schultz (385-5000)  
One vacuum pickup truck 2 ton
- C. Howard Morris Inc.  
6153 Columbia Ave.  
Hammond, Indiana  
Mr. Truppe 219-933-7466  
Mr. Smith 312-734-5889  
Available for rent 24 hrs a day. (Fee includes 3 operators)  
One vacuum truck 200 H.P.
- D. American Oil Co.  
East Chicago, Indiana  
Mr. Windhauser 219-659-2700 ext 216  
Nights and Weekends 219-397-4039  
Not always available  
One vacuum truck 22,760 lbs.  
One self-propelled skimmer 2,750 lbs.



- E. Self propelled skimmer  
American Oil Co. Riley Rd. and Ind. Harbor Ship  
Canal, East Chicago, Ind.  
Phone: Mr. Windhauser 219-659-2700 ext. 216  
FTS 219-932-5500  
Nights and Weekends: 219-397-4039 or 219-659-2700 ext 343
- F. One (1) oil skimmer, 750 lbs.;  
Two (2) tank trucks, 2000 gals. capacity.  
One (1) vacuum truck, 1000 gals. capacity;  
Eighty (80) tons straw, long wheat  
The Marson Corporation, 327 S. La Salle St.  
Chicago, Ill.  
Phone: John D. Harper 312-741-9047 (24 hrs)  
Note: Equipment normally for hire

4. CLEVELAND

- A. Hirth Oil Co.  
2890 E. 83rd  
7 trucks (4500 gals.) and pumps
- B. USHER Waste Oil  
2205 W. 3rd  
216-861-1907  
10 trucks (5-8000 gal.) and pumps
- C. P and K Oil Service  
6929 Detroit Ave.  
216-961-6496  
4 trucks (1500 gal) and pumps
- D. Shell Oil  
2201 W. 3rd  
216-861-6509  
10 trucks (8-9000 gal.)
- E. Harbor Commissioner  
216-694-3390  
One floating Skimmer





F. Gulf Oil Co. Inc.,  
250 Jefferson Ave.,  
Cleveland, Ohio 44113  
Phone: 216-861-0755  
7 tank trucks

5. DETROIT

- A. Ford River Rouge Plant  
One Floating type skimmer,  
Transportable by air
- B. Marine Pollution Control Corp.  
214 Randolph Street,  
Detroit, Michigan  
One floating type skimmer  
Transportable by truck but not by air

6. DULUTH

- A. None

7. LUDINGTON

- A. None

8. MILWAUKEE

- A. None

9. SAULT STE MARIE

- A. None

10. TOLEDO

- A. Sun Oil Co.  
One portable electric explosion proof loating  
saucer skimmer



## MISCELLANEOUS

### 1. OSWEGO

- A.    Camp Drum  
      Watertown, New York  
      Phone: 315-SU - 6900  
      Aircraft and Vehicles.
  
- B.    St. Lawrence Seaway  
      Pilot Assoc.  
      Cape Vincent, New York  
      Phone: 315-014-4900  
      2 Launches.
  
- C.    St. Lawrence Seaway  
      Development Corp.  
      Massena, New York.  
      Phone: 315-764-0271  
      Tub Robinson Bay  
      Barge and Crane  
      40' utility boat.
  
- D.    N.Y. State Police Station  
      Theresa Road  
      Watertown, N.Y.  
      Phone: 315-782-2112  
      17' boat and scuba divers
  
- E.    Jefferson County Sheriff  
      311 N. Massey St.  
      Watertown, N.Y.  
      Phone: 315-788-1441  
      14' skiff and scuba diver
  
- F.    Association Island YMCA  
      Henderson Harbor, New York  
      Phone: 315-435-5022  
      56' LCM
  
- G.    Northern Yachts Inc.  
      Henderson Harbor, New York.  
      Phone: 315-435-5421  
      28' work boat  
      20 ton travel life, underwater  
      welding equipment



- H. Sodus Point Volunteer Fire Dept.  
Sodus Point, New York  
Phone: 315-483-9494  
1 DUKW
- I. Stewart S. Sill Sr.,  
Sodus Point, New York,  
Phone: 315-483-7374  
65' Tug (320 HP)  
Crane, 6 salvage pumps  
6 Portable pumps.
- J. Burcroff Marine  
Construction Inc.  
146 Washington St.,  
Puttneyville, New York  
Phone: 315-589-7131  
78' tug (Marion)  
36' tug
- K. Alexandria Bay Fire Dept.  
Alexandria Bay, New York  
Phone: 315-482-2345  
1 Fire boat.
- L. Rogers Texaco Marina  
Alexandria Bay, New York  
Phone: 315-482-9461  
Work Boat and 3 salvage pumps.
- M. Hutchinsons Boat Works  
Alexandria Bay, New York  
Phone: 315-482-9931  
1 work boat and 1 salvage pump.
- N. Bonnie Castle Marina  
Alexandria Bay, New York  
Phone: 315-482-9975  
1 work boat and 1 salvage pump.
- O. Ogdensburg Fire Dept.  
Ogdensburg, New York  
Phone: 315-393-1010  
1 DUKW



- P. Ogdensburg Police Dept.  
Ogdensburg, New York  
Phone: 315-393-1551  
16' boat.
- Q. Massena Fire Dept.  
Massena, New York  
Phone: 315-769-2464  
1 DUKW
- R. Metropolitan Oil Company  
Massena, New York  
Phone: 315-764-0521  
Tank trucks.
- S. Oswego County Sheriff Dept.  
Oswego, New York  
Phone: 343-5490 or 343-8331  
4 boats
- T. Oswego Fire Dept.  
112 E. Bridge St.,  
Oswego, New York  
Phone: 343-1313  
6 Scuba divers.
- U. Slyvan Beach State Police  
Slyvan Beach  
Slyvan Beach, New York  
Phone: 762-4441  
1 boat
- V. Pirates Cove Marina  
Phoenix, New York  
Phone: 695-8707  
35' cruiser and 2 scuba divers.

2. BUFFALO  
A. None





3. CLEVELAND

- A. U.S. Army Corps of Engineers  
Phone: 216-621-7962  
Barges.
- B. U.S. Army Corps of Engineers Phone: 216-621-7962  
(Benson Hanserman) via Harbor Master 216-621-3256  
Ind. Waste Bureau 216-694-3320  
Div. Water Poll. Control  
2785 Broadway, Cleveland (Ray Rath)  
Cleveland, Fire Department 216-621-1212  
Boats: Rowboat and 50' launch 4 (40')  
1 (18' on trailer)
- C. Scuba Diver  
John Bering  
Phone: 216-651-5322

4. DETROIT

- A. Marine Pollution Control Co.  
214 Randolph Street  
Detroit, Michigan.  
Phone: 313-931-1035  
1 36' x 12' work barge (self-propelled)  
Permanent equipment aboard:  
4 630 gal. Settling Tanks (barge has a 6000 gal. per hr. suction  
1 Air Compressor  
1 3" vacuum pump and resvior  
3 2" Cent. pumps  
1 4" Cent. pump  
1 3" Dia. pump  
1 1 " Air pump (with chemical proportion  
100' various size hoses  
1000' (36" length oil booms  
4 skimmer adapters  
1 2000 watt Generator  
5 Walkie Talkies  
1 Mobile Telephone  
400 gals. oil dispersant  
12' x 20' Debris hauling space



1 MSA Explosive meter  
 2 Lamb Sir movers  
 1 Air Cub oxygen unit  
 1 2 mask MSA fresh air hand operated unit  
 10 Buoy markers  
 Allied equipment:  
 1 12' Stake truck with barrel hoist  
 1 1650 gal. Vacuum Tank Truck  
 1 1650 gal. Tank Truck with pump  
 3 4" Cent. pumps  
 1 Double trailer tanker unit (8500 gal. capacity)  
 1 27' Fiberglass hull power boat (twin screw) (for utility)  
 UHF and VH radio, fathometer.  
 1 15' Outboard and oar powered Work Dingy  
 800' various sizes Suction hose  
 1000' various size discharger Mill hose  
 Lab. facilities to determine B.S. and W contents of  
 petroleum products and flash points.  
 1,000 ft. Papper Cylinder boom material  
 200' Standard Slickbar.

## 5. CHICAGO

- A. American Oil Company  
 Riley Road and Indiana Harbor Ship Canal, East Chicago, Ind.  
 Phone: Mr. Windhauser 219-659-2700, Ext. 214 FTS 219-932-5500  
 Nights and Weekends) 219-397-4039 or 219-659-2700, Ext. 343  
 One 16' with 9 1/2 h.p. motor  
 One air line throwing gun, 30 lb.
- B. Cities Service Oil Co.  
 Columbus Dr., East Chicago, Indiana  
 Phone: Mr. McCarthy Phone: 219-397-656-Ext. 342  
 Mr. Knight 219-397-6560 Ext. 253 FTS 219-932-5500  
 Nights and weekends 219-397-6560 (ask for foreman)  
 One Row Boat and Trailer
- C. Mobil Oil Co., Indianapolis Blvd., East Chicago, Indiana  
 Phone: Mr. Murray 219-932-5500  
 FTS 219-932-5500  
 Nights and Weekends 219-397-1950 (ask for foreman)  
 One row boat.  
 Two air line throwing guns, 30 lbs. each.



- D. Shell Oil Co., Columbus Dr., East Chicago, Indiana  
Phone: Mr. Austin 219-845-4502  
FTS 219-932-5500  
One Row Boat.
- E. Humble Oil and Refining Co.  
3301 So. California Ave.  
Chicago, Ill.  
Phone: Mr. Game, Supt., (312) 523-8100  
Night Phone: (312) 247-2615  
One 14' aluminum boat with 3 1/2 h.p. motor, 105 lbs.
- F. Walter Kidde and Co. Inc.  
1314 S. Randolph St., Chicago, Ill.  
Phone: Mr. Vonckx 352-1910.  
Two gasoline driver generators, 161 lbs ea.
- G. The Texas Co., 3600 Canal St., East Chicago, Indiana  
Phone: Mr. Eaton: 210-397-0908  
Two Foamite Generators, 300 lbs. ea.
- H. Clarke Oil and Refining Co., 131 St. and Kedzie Ave.,  
Blue Island, Ill.  
Phone: Mr. Schultz 385-5000  
Two portable generators
- I. General American Tank, 67 St. and Archer Rd., Argo, Ill.  
Phone: Mr. Ferry 381-2340  
Home: 424-6683  
Mr. McDonald 581-2340  
Home: 458-3281  
Six foam generators with hoppers  
Six portable dry chemical extinguishers, 350 lbs. ea.  
85' portable dry chemical extinguishers, 30 lbs. ea.  
One 3" by 43' portable hydraulic foam tower (Type H-T33)
- J. Pure Oil Co., Lemont, Ill.  
Phone: Mr. Gerhary 257-2201  
12 Foamite generators for mixing chemicals, 300 lbs. ea.



- K. One (1) 12' Row boat  
Phillips Pipeline Co., 400 E. Columbus, East Chicago, Indiana  
Phone: Mr. Staton 219-397-6666.  
FTS 219-932-5500  
Nights and Weekends 219-397-6666
- L. One (1) Barge, tank class D. USCG, 10,000 gal.  
Seven (7) water craft, self prop.  
Marsan Corp, 327 S. LaSalle St., Chicago, Ill.  
Phone: John D. Harper 312-741-9047 (24 Hrs).  
Note: Equipment normally for hire.
- M. One (1) 12' boat with oars  
Texaco Co., 3600 Canal St., East Chicago, Ind.  
Phone: Mr. Eaton 219-397-0908  
Nights and Weekends 219-838-8881
- N. Four (4) Mobile, Four (4) portable, 153.230 MC  
American Oil Co., Riley Rd. and Ind. Harbor Ship Canal,  
East Chicago, Ind.  
Phone: 219-659-2700 Ext. 214 or 216.  
FTS 219-932-5500  
Nights and Weekends 219-397-4039 or 219-659-2700 Ext. 343.
- O. Five (5), 158.310 MC Mobile units  
Cities Service Oil Co., Columbus Dr., East Chicago, Ind.  
Phone: Mr. McCarty 219-397-6560, Ext. 342  
Mr. Knight 219-397-6560, Ext 253  
FTS 219-932-5500  
Nights and Weekends 219-397-6560 (ask for foreman)
- P. Five (5) Mobile, Three (3) portable, 153.110 MC  
Mobile Oil Co., 3821 Indianapolis Blvd., East Chicago, Ind.  
Phone: Mr. Murray 219-397-1950  
FTS 219-932-5500  
Nights and Weekends 219-397-1950 (ask for foreman)
- Q. Two (2) portable units, 26.72 and 27.175 MC  
Phillips Pipeline Co., 400 E. Columbus, East Chicago, Ind.  
Phone: Mr. Stanton 219-397-6666  
FTS 219-932-5500  
Nights and Weekends 219-397-6666 (ask for leadman)







- R. Several Mobile, Twenty (20 Portable Units 153.17 MC  
Sinclair Refining Co., 3500 Indianapolis Blvd., East Chicago, Ind.  
Phone: 219-397-0924 (ask for shift foreman)  
FTS 219-932-5500
- S. Mr. George A. Hale  
Skokie, Ill.  
Phone: 312-677-6200 (Days)  
Nights and Weekends 312-257-2171
- T. Mr. G.J. Gerharz, Lemont, Ill.  
Phone: 312-257-2201 (Days)  
Nights and Weekends 312-257-2171
- U. One (1) air powered line throwing gun  
Texaco Co., 3600 Canal St., East Chicago, Ind.  
Phone: Mr. Eaton 219-397-0908  
Nights and Weekends 219-838-8881
- V. Three (3) straw mulchers, Tinn type, 800 lbs. ea.  
One (1) Harvester for oil soaked straw, 3200 lbs.  
Three (3) inflatable bags, 900 gal. rubber, Goodyear, 250 lb. ea.  
The Marsan Corp., 327 S. LaSalle St., Chicago, Ill.  
Phone: John D. Harper 312-741-9047 (24 hrs.)  
Note: Equipment normally for hire

6. MILWAUKEE

- A. Milwaukee Harbor Commission  
Milwaukee, Wisconsin  
Phone: 414-276-9355  
45' tug with JANSOLV 60 and spraying equipment.
- B. Wisconsin Department of Natural Resources  
Madison, Wisconsin  
Phone: 608-266-3221  
Oil testing equipment.

7. LUDINGTON

- A. None



8. SAULT STE. MARIE

- A. None

9. DULUTH

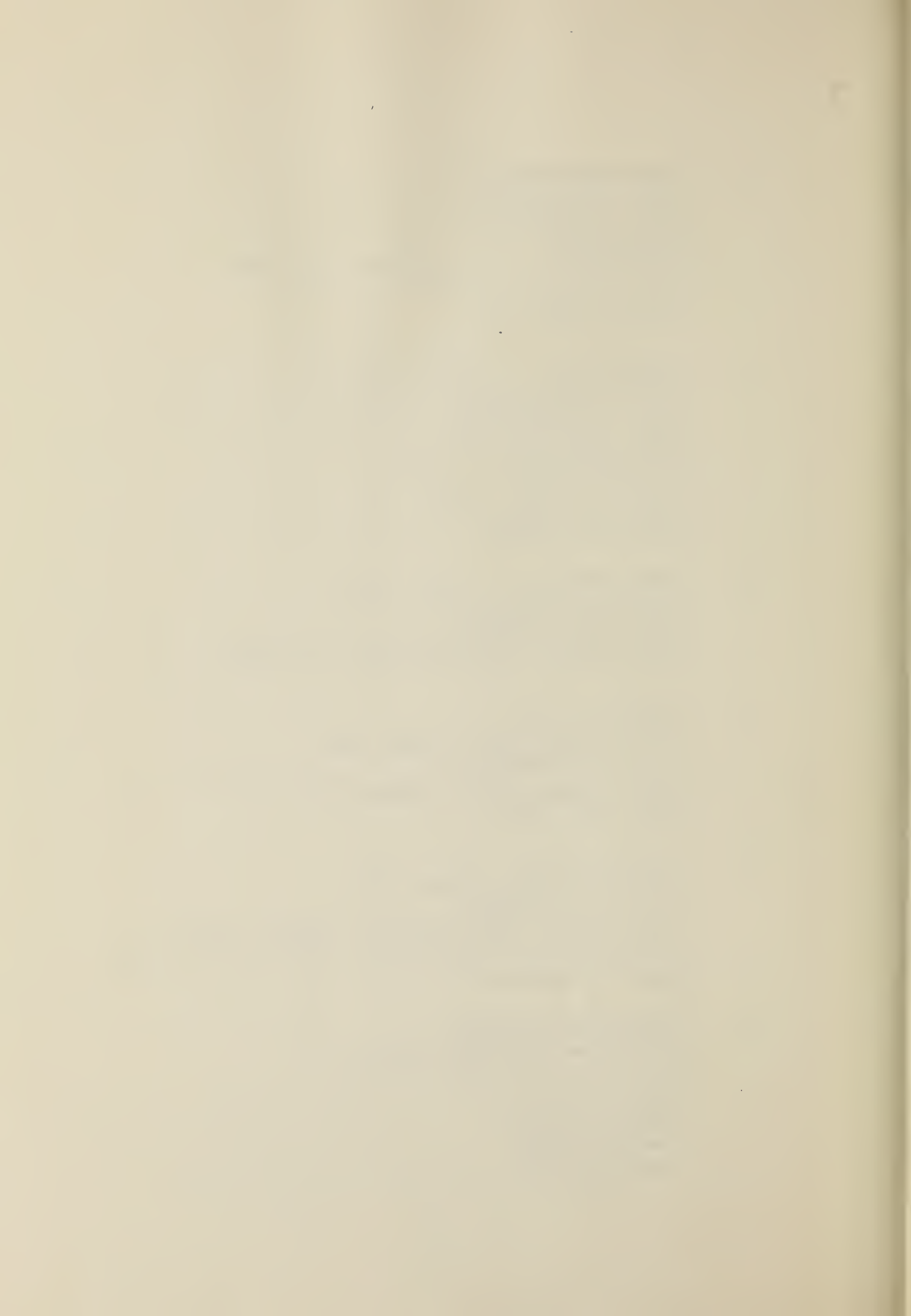
- A. Marine Fueling, Inc.  
Foot of Hill Avenue  
Superior, Wisconsin  
Phone: 727-3380 (Sig Mattson-525-1601 (Home Phone)  
One Self-propelled tank barge WILLIAM H. BENNETT  
64,000 gal. capacity, grades D and E Pumping capacity 1,050  
gal./min.  
Non-self-propelled tank barge K-10 13,000 gal. capacity grades  
D and E pumping capacity 60 gal./min.  
2,000 gal. tank truck with pumping equipment.
- B. Murphy Oil Co.  
Superior Refinery  
Superior, Wisconsin  
Walter Buck Phone: 727-6828 (24 hour phone)  
2000 gal. tank truck with pumping equipment
- C. Great Northern Refinery  
P.O. Box 3596  
Pine Bend, Minnesota  
Jud Hester, Plant Supervisor  
Phone: 612-222-4721 (24 Hour phone)  
Common carrier, 24 hour service  
Portable surface pump  
Weight 300 lbs. (approximate)  
70 foot suction hose, discharge hose with  
flange connection.

10. TOLEDO

- A. Toledo Police Department  
Toledo, Ohio 43604  
Phone: 419-241-1221  
One 26' boat equipped with a P-500 Pump (max wt. 200 lbs)  
(capacity 500 GPM at 100 PSI large colume medium pressure)  
Hose: 100 feet of 1 1/2 - all purpose nozzle  
Varying supply of a chemical emulsifying agent for dispersal  
of oil spills. (20 gals. cover 1000 square feet)



- B. Toledo Fire Department  
Toledo, Ohio 43604  
Phone: 419-232-4141  
One Fire Boat  
Hose 300 ft. 2 1/2" hose; 300 ft. 1 1/2" hose.  
1 foam eductor  
foam 2 - 5 gal cans.
- C. Gulf Oil Co.  
2935 Front Street, Toledo, Ohio  
Phone: 419-729-3871  
Hose: 1200 feet 2 1/2"  
One fully equipped fire truck.  
One 350 lbs DC  
One 12' aluminum rowboat  
One fixed air drive
- D. Shell Oil Co.  
2844 Summit Street, Toledo, Ohio  
Phone: 419-726-0565  
Foxxed Systems: Chemical foam - 27,000 gal.  
(2) hose: 400'.
- E. Standard Oil Co.  
Foot of Millard Street, Toledo, Ohio  
Phone: 419-248-1461  
Fixed Systems: Chemical foam-2100 lb type B.  
Hose: 700' 2 1/2"
- F. Ashland Oil Co.  
3147 Jessie Street, Toledo, Ohio  
Phone: 419-726-2867  
Fixed Systems: Chemical foam - 1445 gal. type A.  
1445 gal. type B. Dry Chemical - 750 gal. single type.  
Hose: 200 feet 2 1/2'
- G. Commercial Oil Service  
5911 Seaman Rd. Toledo, Ohio  
Phone: 419-836-3694 or 691-0617  
4 tank trucks  
1 each 5,700 gal.  
2 each 1,600 gal.  
1 each 2,600 gal.



1 each 1,600 gal.  
1 gear pump 2" - 3" suction  
(Portable - can be used with Item #3)  
10 ft perforated vacuum pipe for oil pick-up

H. Sun Oil Co.  
Toledo, Ohio  
(4) 12 foot aluminum hand propelled boats for handling  
slix bar spill boom





Date Due


Z/5862.2/S65/S65/MOE/1971  
 Ontario Water Resources Co  
 Interim province of  
 Ontaio contingency aqwz  
 c.1 a aa

DATE DUE	BORROWER'S NAME

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 c.1 a aa



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